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A BIBLIOGRAPHY OF FISHES

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"Quam bene, alii judicabunt; magno certe cum labore."

Pour bien sçavoir les choses il faut en sçavoir le détail. — *La Rochefoucauld.*

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I. For economy in publication, titles have been simplified; certain words and punctuation marks have been omitted where they appeared unnecessary for a clear understanding of the references.

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III. Additions to titles or inserted explanatory phrases are included in inferior brackets ⌊ ⌋, parentheses being retained where they occur in titles.

IV. The number of the volume is printed in bold-faced type, immediately succeeding the numerals denoting year of publication.

V. Authors' titles are arranged chronologically as to years and alphabetically as to publications within the same year.

VI. Where titles have been taken from standard works of reference (*e. g.*, British Museum Library Catalogue and the bibliographies of Agassiz, Bosgoed, Carus and Engelmann, etc.) the numbers for pages and volume have not as a rule been verified.

BIBLIOGRAPHY OF FISHES

L

L., (*Dr.*) Abänderungen im Fischereigesetze. Deutsch. Fischerei Zeitg., 1879, **2**, 373–374. 1879.1

L, —— Friedfische und Raubfische. Oesterr.-ungar. Fischerei Zeitg., 1880, p. 116. 1880.1

L., *F. A.* Der Saibling [*Salmo salvelinus*] als Bassin Fisch. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 214–215. 1880.1

—— Die Verwerthung der Laube [*Alburnus lucidus*] am Attersee. Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 22. 1880.2

L., *G.* How and where eels generate. Forest & Stream, 1876, **6**, 214. 1876.1

L., *J.* Angling at the Berlin exhibition. Fish. Gazette, 1880, **4**, 443–444. 1880.1

L., *W.* Observations on the eel (*Anguilla muræna*) Mag. Nat. Hist., 1835, **8**, 233–236. 1835.1

—— The Salmonidæ of Scotland. Mag. Nat. Hist., 1835, **8**, 232–233. 1835.2

L., *W. N.* The chimæra or rat-fish. Chicago Field, 1879, **12**, 277. 1879.1

Laackmann, *H.* Der Löwenkopffisch [Carassius] das neueste Zuchtprodukt japanischer Schleierfischzucht im Leipziger Aquarium. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 685–686; 761–762. 2 figs. 1911.1

—— Die japanischen Abarten des Goldfisches. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 319–321; 335–337. 10 figs. 1912.1

—— Die Zucht der Goldfischabarten in Japan. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 543–546. 2 figs. 1912.2

Laaser, *Paul.* Die Entwickelung der Zahnleiste bei den Selachiern. Vorläufige Mitteilung. Anat. Anz., 1900, **17**, 479–489. 8 figs. 1900.1

—— Die Zahnleiste und die ersten Zahnanlagen der Selachier. Jena. Zeitschr. Naturw., 1903, **47**, 551–578. pl. & 13 figs. Also separate; Leipzig, 1903. 29 p. 1903.1

Labatut, ——, & **Perrier,** *Léon. See* **Perrier & Labatut.**

La Bavière, —— Pêche du hareng. Rev. Marit. & Colon. Paris, 1872, 875–893. 1872.1

La Blanchère. *Pierre René Henri Moullin du Coudray de* [1821–1880] La pêche aux bains de mer. Paris [n. d.] ii, 323 p. pl. 4°.

—— Industrie des eaux; culture des plages maritimes; pêche; élévage; multiplication des crevettes; homards; langoustes; crabes; huîtres; moules et mollusques divers; avec une préface de M. Coste. Paris, 1866. viii, 276 p. pls. 16°. 1866.1

—— Etablissement de pisciculture de Cadillac-sur-Garonne. Bull. Soc. Acclim. Paris, 1868, 2. sér. **5**, 840–850. 1868.1

—— La pêche et les poissons. Nouveau dictionnaire général des pêches. Précédé d'une préface par Auguste Duméril. Paris, 1868. xv, 859 p. pls. & figs. 8°. 1868.2

—— Domestication des poissons. Journ. Agricult. Pratique, 1869, 33. année, **2**, 705–708. pl. 1869.1

—— Du transport des poissons vivants. Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 284–298. 8 figs. 1869.2

—— Nouveau système d'élevage pour les salmonidés et de leur nourriture à l'état d'alevins. Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 515–532. 3 figs. 1869.3

—— Comment meurent les poissons. Bull. Soc. Acclim. Paris, 1870, 2. sér. **7**, 362–366. 1870.1

—— Le dépeuplement des eaux de France, la pisciculture et la législation sur la pêche. Rev. des Deux Mondes, 1870, **40**, 243–263. 1870.2

La Blanchère, *P. R. H. M. C.*
—— L'esprit des poissons. Paris, 1870. 35 pls. 12°. 1870.3

—— Culture des eaux. Journ. Agricult. Pratique, 1870, 34. année, **1**, 165–167; 447–450; 521–524; 627–629; 660–663. *Ibid.*, 1870–71, 35. année, **2**, 150–152; 191–195; 519–522; 635–637; 997–999. *Ibid.*, 1872, 36. année, **2**, 43–47; 263–269; 297–298; 412–416; 636–639. 1870.4

—— Des viviers marins. Bull. Soc. Acclim. Paris, 1872, 2. sér. **9**, 270–280. 1872.2

—— Pêche fluviale. Des modifications à apporter au décret du 25 janvier 1868. Bull. Soc. Acclim. Paris, 1872, 2. sér. **9**, 355–363. 1872.3

—— Sur les changements de coloration produits chez les poissons par les conditions d'habitat. C. R. Acad. Sci. Paris, 1872, **75**, 1029–1030. 1872.4

—— Sur une espèce nouvelle de chondrostome, déterminée dans les eaux du Rouergue (*Chondrostoma peresi* La Bl.) C. R. Acad. Sci. Paris, 1872, **75**, 1632–1636. illust. 1872.5

—— Les chondrostomes de France. Bull. Soc. Acclim. Paris, 1873, 2. sér. **10**, 689–699. illust. 1873.1

—— Sur une vaudoise nouvelle déterminée dans les eaux du Rouergue (*Squalius oxyrrhinis* La Bl.) C. R. Acad. Sci. Paris, 1873, **76**, 662–665. 1873.2

—— Les anabatidés [*Anabas scandens*] La Nature, 1874, 2. année, pt. 2, 193–195. figs. 1874.1

—— Les coffres [Ostracion] La Nature, 1874, 2. année, pt. 2, 175–176. fig. 1874.2

—— Y a-t-il des poissons à acclimater? Conférence faite au Jardin d'Acclimatation, le 29 juillet 1873. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 64–80. 1874.3

—— Exposition des industries maritimes et fluviatiles. La pêche et les poissons. Journ. Agricult. Pratique, 1875, 39. année, **2**, 184–185; 708–710; 743–747. 1875.1

—— L'esprit des poissons. 2. ed. Paris, 1876. 35 pls. 8°. 1876.1

—— Génération de l'anguille. Bull. Soc. Acclim. Paris, 1876, 3. ser. **3**, 489–494. 1876.2

—— L'aquiculture en France, en Europe et en Amérique. Bull. Soc. Acclim. Paris, 1877, 3. sér. **4**, 617–640. 1877.1

—— Les nouveaux engins d'éclosion et remontage des poissons. C. R. Assoc. Franç. Avanc. Sci., 5. sess. 1876 (1877), 931–941. 1877.2

—— La pisciculture en Russie. Journ. Agricult. Pratique, 1877, 41. année, **1**, 59–62; 88–89. 1877.3

—— Génération de l'anguille. Bull. Soc. Acclim. Paris, 1878, 3. sér. **3**, 489–494. 1878.1

Laboissière, *V.* Note sur *Hexanchus griseus* Rafin. Bull. Assoc. Nat. Levallois-Perret, 1910, 5. année, p. 6. 1910.1

Labonté, *Hermann.* Beiträge zur Verbreitung und Biologie der drei seltenen Barscharten *Aspro streber* v. Sieb., *A. zingel* (L.) und *Acerina schrætser* (L.) des Donaugebietes. Blätt. Aquar.-Terrar. Kunde, 1905, 16. Jahrg., 443–448; 456–458; 463–467; 475–477; 485–487; 493–498. 1905.1

—— Zur Biologie des Strebers (*Aspro streber* v. Siebold) Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 523–525. fig. 1909.1

Laborde, (*Abbé*) —— Ueber den (elektrischen) fliegenden Fisch. Ausland, 1865, 38. Jahrg., 549–550. 1865.1

Not seen; title from O. Taschenberg, Bibliotheca Zoologica, Bd. iv.

Labtbom, *J.* (*præses*) Dissertatio de piscinis. Upsaliæ, 1764. 4°. 1764.1

C. Iseberg, *respondent.*

Lacépède, (*Comte*) *Bernhard Germain Etienne de la Ville-sur-Illon* [1756–1825] Introduction au cours d'ichthyologie donné dans les galeries du Muséum d'Histoire Naturelle. Magasin Encyclop. (Millin), 1795, **1**, 448. 1795.1

—— Sur le Polyodon feuille [*Spatularia folium*] Bull. Sci. Soc. Philom. Paris, 1797, **1**, pt. 2, 49. — Magasin Encyclop. (Millin), 1797, **3**, pt. 4, 13–14. 1797.1

—— Histoire naturelle des poissons, [vol. i] par le citoyen La Cépède, membre de l'Institut National, et Professeur du Muséum d'Histoire Naturelle. Tome premier [–v] Paris, 1798–1803. 4°. 1798.1

"The title-page was modified in each volume, and the personal titles successively increased in number; the address of the publisher was

changed (in vols. iii–v); the last volume (on title-page) was dedicated to his late wife; and only the first volume bears the date of the Christian era.

"Originally published and frequently reproduced in connection with Buffon's works, *e.g.*, Buffon, 1st ed. (1749–84), vols. 39–43; 1st 12mo ed. (1752–1805), vols. 78–88; Lacépède's 1st ed. (1799–1802), 14 vols.; Lacépède's 2d ed. (1817–19), vols. 13–17; Lamouroux and Desmarest's ed. (1824–32), suite — *i.e.*, Œuvres du Comte de Lacépède — vols. 5–11; Lecointe's ed. (1829–34), about 25 vols; also republished in 'Histoire Naturelle' in 1855. The compilation ascribed to Sonnini de Manoncour (Charles Nicolas Sigisbert) is also merely a slightly modified reprint of the same work.

"A work by an able man and eloquent writer, but which, on account of undue confidence in others, default of comparison of materials from want thereof and otherwise, and carelessness generally, is entirely unreliable. Many species appear under several different names, and in genera widely separated. The classification adopted is a procrustean system of (1) subclasses, (2) divisions, and (3) orders. . . . Fourteen hundred and sixty-three (1463) nominal species were described." — T. N. Gill, Smithson. Misc. Coll., 1872, **11**, no. 247, 39.

—— Mémoire sur l'organe de la vue du poisson appelé *Cobitis anableps* ou "gros yeux de Cayenne." Mém. Instit. Paris, 1799, **2**, 372–379. 1799.2

—— Naturgeschichte der Fische. 2 vols. Berlin, 1799–1803. fig. 8°. 1799.3

A second edition of this work, edited by Desmarest, was published at Paris in 1833–35.

—— Histoire naturelle des poissons . . . dédiée au citoyen Lacépède. 14 vols. Paris, 1799–1804. 18°. 1803.1

"Although vols. i–x are dated 1799, this issue of this edition did not appear till 1803." — C. D. Sherborn, Nat. Sci., **15**, 406.

—— Mémoire sur plusieurs animaux de la Nouvelle Hollande (reptiles et poissons) dont la description n'a pas encore été publiée. Ann. Mus. Hist. Nat. Paris, 1804, **4**, 184–211. fig. 1804.1

—— Sur un poisson fossile trouvé dans une couche de gypse à Montmartre, près de Paris. Ann. Mus. Hist. Nat. Paris, 1807, **10**, 234–235. 1807.1

—— Collection des planches d'animaux pour les œuvres de M. le Comte de Lacépède, faisant suite aux œuvres complètes de Buffon. Paris, 1819. 114 pls. 8°. 1819.1

—— Histoire naturelle des poissons, par M. le Comte de Lacépède, suite et complément des œuvres de Buffon. 5 vols. Paris, 1819. 93 pls. 8°. 1819.2

—— Naturgeschichte der Fische. 2. ed. 3 vols. edited by Desmarest. Paris, 1833–35. 1833.1

—— Histoire naturelle de Lacépède, comprenant les cétacés, les quadrupèdes ovipares, les serpents et les poissons, nouvelle édition, précédée de l'éloge de Lacépède, par Cuvier; avec des notes et la nouvelle classification de M. A. G. Desmarest. 2 vols. Paris, 1844. col. pls. 8°. 1844.1

—— Histoire naturelle des poissons. Bar-le-Duc, 1878. iv, 319 p. 8° (Bibliothèque des chefs d'œuvres) 1878.1

Lacépède, (*Comte*) *Bernhard Germain Etienne*, **Vauquelin,** *Louis Nicolas*, & **Cuvier,** (*Baron*) *Georges.* Rapport fait à la classe des sciences physiques et mathematiques, sur le mémoire de M. Delaroche, relatif à la vessie aérienne des poissons. Ann. Mus. Hist. Nat. Paris, 1809, **14**, 165–183. 1809.1

La Chapelle, —— *de.* Observation sur un poisson, qui ressemble à peu près à une truite qui fait l'effet d'un baromètre. Mém. Acad. Sci. Paris, 1820, **1**, 424. 1820.1

La Chenaye-Desbois, *François Alexandre Aubert de.* Dictionnaire raisonné . . . des animaux, etc. 4 vols. Paris, 1759. 4°. 1759.1

Lachmann, *Hermann* [Notes on the habits in confinement of *Protopterus annectens* Owen] Zool. Garten, 1891, **32**, 129. 1891.1

—— Getüpfter Gurami. Nerthus, Altona, 1901, **3**, 12–13; 22–24. 1901.1

—— Ein neuer Zahnkarpfen. Nerthus, Altona, 1901, **3**, 735–736. fig. 1901.2

Lacoin, *H.*, & **Hameau,** —— *See* **Hameau & Lacoin.**

Ladreyt, *F.*, & **Rouvière,** —— *See* **Rouvière & Ladreyt.**

Länsimäki, *T. A.* Ueber die Anordnung der Fibrillenbündel in den quergestreiften Muskeln einiger Fische. Anat. Hefte, 1910, **42**, 251–279. pl. & 17 figs. 1910.1

Laer, *Wilhelm von.* Bericht über die künstliche Zucht von Lachsen in der Weser, an seiner Excellenz den Herrn Minister für die landwirthschaftlichen Angelegenheiten. Annal. Landw. Wochenbl., 1863, 3. Jahrg., 49–51; 64–66. 1863.1

Läubli, *Georg.* Statistische und technische Darstellung der Fischerei im Bodensee und Untersee. Intern. Fi-

Läubli, *G.* scherei-Ausstell. Berlin, 1880 (*Schweizerischer Katalog*), 77–95. Also separate; Leipzig, 1880. 19 p. 8°. 1880.1

Lafite-Dupont, *J.* Expérimentation sur l'orientation des poissons. Lésions des canaux semi-circulaires de l'oreille interne. Act. Soc. Linn. Bordeaux, 1905, **60** (*Proc. Verb.*), lviii–lix. — Trav. Labor. Soc. Sci. Arcachon, **8**, 103–107. 1905.1

—— Recherches sur l'audition des poissons. C. R. Mém. Soc. Biol. Paris, 1907, **63**, 710–711. 1907.1

—— Sur le développement de la paroi des sinus veineux des poissons cartilagineux. C. R. Mém. Soc. Biol. Paris, 1910, **68**, 694. 1910.1

Lafone Quevado, *Samuel A.* Prólogo, traducción y annotaciónes (In Schmidel, Ulrich. Viaje al Río de la Plata (1534–1554) Notas bibliográficas y biográficas por Bartoloméo Mitre. Buenos Aires, 1903. 499 p. illust. & maps. 8°) 1903.1

Lafont, *A.* Note pour servir à la faune de la Gironde, contenant la liste des animaux marins dont la présence à Arcachon a été constatée pendant les années 1867 et 1868. Act. Soc. Linn. Bordeaux, 1868, **26**, 518–531. 1868.1

—— Description d'une nouvelle espèce de raie [*Raja brachyura*] Act. Soc. Linn. Bordeaux 1871 (1873), **28** (3. sér. **8**), 503–504. pl. 1873.1

La Fontaine, *Alphonse de* [*c.* 1820 —] Faune du pays de Luxembourg, ou manuel de zoologie, etc. 4 vols. Luxembourg, 1865–72. illust. 1865.1

Poissons de Luxembourg. 2 pls.

Lagally, *M.* Ueber Schutzfarben der Fische. Ber. Naturwiss. Ver. Regensburg, 1903, **9**, 35–51. 1903.1

Lagatu, *H.* Anomalies de coloration observées chez une sole et une raie. Poissons rares capturés à Arcachon. Act. Soc. Linn. Bordeaux, 1887, **41**, lxxvi. 1887.1

Lagberg, *Joh. Ol.* Dissertatio anatomiam sistens *Murænæ anguilla* L. [*Anguilla vulgaris* Flem.] comparatam et observationibus physiologicis dilucidatam. Lund, 1821. 24 p. pl. 8°. 1821.1

Laghuzen, *Iosif Ivanovich.* *See* **Lahusen,** *I. I.*

Lagriffe, ——, & **Maurel,** —— *See* **Maurel** & **Lagriffe.**

Laguesse, *G. E.* Sur le développement de la rate des poissons osseux. C. R. Mém. Soc. Biol. Paris, 1887, 8. sér. **4**, 458–460. 1887.1

—— Développement du pancréas chez les poissons osseux. C. R. Mém. Soc. Biol. Paris, 1889, 9. sér. **1**, 341–343. 1889.1

—— Note sur la rate et le pancréas du protoptère et de la lamproie. C. R. Mém. Soc. Biol. Paris, 1890, 9. sér. **2**, 425–426. 1890.1

—— Recherches sur le développement de la rate chez les poissons. Journ. Anat. Physiol. Paris, 1890, **26**, 345–406; 425–495. 13 pls. 1890.2

—— Bourrelets valvulaires artériels chez les poissons (Labrus, Crenilabrus) C. R. Mém. Soc. Biol. Paris, 1892, 9. sér. **4**, 211–213. 2 figs. 1892.1

—— Sur les bourgeons pancréatiques accessoires et l'origine du canal pancréatique chez les poissons. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 402–404. 1893.1

—— Développement du pancréas chez les poissons osseux (organogénie, histogénie) Journ. Anat. Physiol., Paris, 1894, **30**, 79–116. pl. 1894.1

—— Développement du pancréas chez les sélaciens. Bibliogr. Anat., Paris, 1894, **2**, 101–109. figs. 1894.2

—— Sur le pancréas du crénilabre et particulièrement sur le pancréas intrahépatique. Rev. Biol. Nord France, 1895, **7**, 343–363. pl. 1895.1

—— Sur la structure du pancréas chez le *Galeus canis*. Bibliogr. Anat., Paris, 1902, **10**, 260–272. figs. 1902.1

—— Sur quelques formes primitives des îlots endocrines dans le pancréas des sélaciens et des ophidiens. C. R. Assoc. Anat., Nancy, 1902, **4**, 14–18. 1902.2

—— Sur la structure de la capsule de la rate chez l'Acanthias. C. R. Mém. Soc. Biol. Paris, 1903, **55**, 1107–1108. 1903.1

—— Sur l'histogénèse de la fibre collagène et de la substance fondamentale dans la capsule de la rate chez les sélaciens. Arch. Anat. Microsc., 1903, **6**, 99–169. pl. & 16 figs. 1903.2

—— Les "Stäbchendrüsenzellen" (M. Plehn) sont des sporozoaires parasites. Anat. Anz., 1906, **28**, 414–416. 1906.1

Entgegnung darauf von Marianne Plehn. *Ibid.*, 1907, **29**, 152–156.

—— Un exemple bien net d'architecture lamellaire du tissu conjonctif lache [des fœtus de la torpille] C. R. Mém. Soc. Biol. Paris, 1911, **71**, 328–329. 1911.1

—— Sur le tissu conjonctif du cordon ombilical de la torpille. C. R. Mém. Soc. Biol. Paris, 1913, **76**, 800–801. 1913.1

—— Sur l'origine embryonnaire des lamelles de substance conjonctive fondamentale hyaline chez la torpille. C. R. Mém. Soc. Biol. Paris, 1913, **75**, 337–339. 1913.2

Lagus, *Elias.* Utdrag af en beskrifning öfver Kusamo socken i Kimi Lappmark. Tredje stycket om socknens naturalhistoria. K. Svensk. Vetensk. Akad. Handl., 1772, **33**, 349–358. — Abh. Schwed. Akad. Wiss. 1772 (1776), **34**, 345–352. 1776.1

Lagus, *S.* Lax och ål i Kyrö sund vid Nyslott. Fiskeritidskr. Finl., 1900, **9**, 171–172. 1900.1

Lahille, *Fernando.* Poissons et batraciens de Toulouse et de ses environs. 3 pts. Bull. Soc. Hist. Nat. Toulouse, 1888. 1888.1

—— Lista de los pescados recogidos en los alrededores de la Plata (Provincia de Buenos Aires) durante el año 1894. Revist. Mus. La Plata, 1895, **6**, 265–278. 1895.1

—— Nota sobre la industria de la pesca en la provincia de Buenos Aires. Revist. Mus. La Plata, 1895, **7**, 159–168. 1895.2

—— Una estación marítima provincial. Revist. Mus. La Plata, 1898, **8**, 389–436. 9 pls. & 4 figs. 1898.1

—— Estudio sistemático de los peces. Bol. Agricult. Ganadería, Buenos Aires, 1901. 8 p. 1901.1

—— La industria de la pesca en la cuenca del Río Salado, y aprovechamiento de las aguas hoy sin valor. Bol. Agricult. Ganaderia, Buenos Aires, 1901. 18 p. 1901.2

—— Los fondos de pesca en la provincia de Buenos Aires. Bol. Agricult. Ganadería, Buenos Aires, 1901. 19 p. pl. 1901.3

—— Los pescadores de la municipalidad de mar del Plata (legislación) Buenos Aires, 1902. 1902.1

—— Nota sobre un género nuevo de escómbrido. Anal. Mus. Nac. Buenos Aires, 1903, 3. ser. **2**, 375–376. 1903.1

—— Aclimatación y piscicultura. Sus primeros pasos en el país. Bol. Centr. Naval, Buenos Aires, December, 1905. 53 p. 9 figs. 1905.1

—— Nota sobre el *Chenogaster holmbergi.* Anal. Mus. Nac. Buenos Aires, 1905, 3. ser. **4**, 461–476. pl. & 2 figs. 1905.2

—— Congreso internacional de pesca y piscicultura. Bol. Minist. Agricult. Buenos Aires, 1906, **5**, 116. 1906.1

—— El dominio nacional de la pesca marítima. Bol. Minist. Agricult. Buenos Aires, 1906, **6**, 1–48. 2 pls. & figs. 1906.2

—— La pesca en la República Argentina. Parte I. Producción, consumo, transporte y legislación, con 12 diagramas y 6 anexos. Ann. Minist. Agricult. Buenos Aires, 1906, **3**, 1–212. 1906.3

—— Aprovechamiento integral de la pesca marítima. Bol. Centr. Naval, Buenos Aires, 1907, **25**. 1907.1

—— Estadística de la pesca en la República Argentina para el año 1906. Bol. Minist. Agricult. Buenos Aires, 1907, **8**, 295–330. 1907.2

—— Estadística de la pesca en la República Argentina para el año 1907. Bol. Minist. Agricult. Buenos Aires, 1908, **9**, 163–169. 1908.1

—— Fiches ichthyométriques. Anal. Mus. Nac. Buneos Aires, 1908, 3. ser. **9**, 443–457. 2 figs. 1908.2

—— Nota sobre los Zoarcidos argentinos. Anal. Mus. Nac. Buenos Aires, 1908, 3. ser. **9**, 403–441. 2 pls. & 9 figs. 1908.3

—— Estadística de la pesca en la República Argentina para el año 1908. Bol. Minist. Agricult. Buenos Aires, 1909, **11**, 687–723. 1909.1

—— Reglamentación de la pesca en las aguas dulces de la provincia de Buenos Aires. Bol. Centr. Naval., Buenos Aires, 1909. 17 p. 1909.2

Lahille, *F.*

—— La industria de la caza y de la pesca en la República Argentina. Necesidad del frío artificial para fomentar su desarrollo. Bol. Minist. Agricult. Buenos Aires, 1910, **12**, 133–145. 1910.1

—— Morenitas y ratonas (Gymnotidæ) Revist. Jard. Zool., Buenos Aires, 1910, **6**, 1–11. 4 figs. 1910.2

—— Nota sobre los géneros Heptranchias y Hexanchus. Anal. Mus. Nac. Buenos Aires, 1913, **24**, 25–34. pls. 1913.1

—— Nota sobre siete peces de las costas argentinas. Anal. Mus. Nac. Buenos Aires, 1913, **24**, 1–20. 7 pls. & 2 figs. 1913.2

—— Notas sobre un pez de Africa (*Agonus chiliensis*) Revist. Chilena Hist. Nat. Santiago de Chili, 1913, 179–181. pl. 1913.3

Lahusen, *Iosif Ivanovich* [1846 —] Zur Kenntniss der Gattung Bothriolepis Eichw. Verh. Russ. K. Mineral. Ges. St. Petersb., 1880, 2. ser. **15**, 125–138. — Neues Jahrb. Mineral., 1880, **2**, 230–231. 2 pls. 1880.1

Laighton, *Cedric.* The capture of shad at isles of Shoals, New Hampshire. Bull. U. S. Fish Comm. 1881 (1882), **1**, 421. 1882.1

Laing, *Samuel* [1812–1897] Journal of a residence in Norway, during the years 1834, 1835 & 1836, etc. London, 1851. 8°. 1851.1

Chap ix. The winter fishing at Lafoden. — Use of nets in cod fishery. — Herring fishery.

Laister, *Alexander.* Beschreibung des Goktscha-Sees [Text in Russian] Pamiatn. Knižka Erivansk. Gub., Erivani, 1908, 163–222. 1908.1

Laitinen, *A.* Några ord om fisket i Lappmarken. Fiskeritidskr. Finl., 1892, **1**, 151–152. 1892.1

—— Några ord om fiskeriförhållandena i Enontekis. Fiskeritidskr. Finl., 1893, **2**, 125–126. 1893.1

—— Om fiskevattnen i Rovaniemi. Fiskeritidskr. Finl., 1900, **9**, 43–44. 1900.1

Lakowitz, *Conrad* [1859 —] Die nordeuropäischen Meere im Rahmen der internationalen Meeresforschung. Schrift. Nat. Ges. Danzig, 1908, n. s. **12**, no. 2, xxxiv–xxxviii. 1908.1

Lallemand, *F.* Observations sur le développement des zoospermes de la raie. C. R. Acad. Sci. Paris, 1841, **12**, 1025–1029. — Ann. Sci. Nat., 1841, **15**, 257–262. fig. 1841.1

Lallinger, *Joseph.* Beitrag zur Histologie und Genese der primären Eihüllen bei den Knochenfischen. Inaug. Dissert. Augsburg, 1901. 42 p. pl. 1901.1

Laloy, *L.* Soins donnés aux jeunes par les poissons. La Nature, 1901, **29**, 244–247. fig. 1901.1

—— La couleur des poissons et la sélection naturelle. Rev. Scient., 1907, 5. sér. **8**, 809–810. 1907.1

—— Biologie de l'anguille. Le Naturaliste, 1910, **32**, 206–207. 1910.1

Lamarche, *Cyrille de.* A propos du chabot (*Cottus gobio* L.) Son extrême abondance aux Etats-Unis. Comment il peut empêcher le repeuplement des eaux. Etangs & Rivières, 1897, 10. année, no. 235, 273–276. 1897.1

—— Le saumon de Californie et son prophète Jousset. Etangs & Rivières, 1897, 10. année, no. 241, 369–378. 1897.2

—— Le macropode de Chine. Cosmos, 1899, n. s. **40**, 650–652. fig. 1899.1

—— Le cat-fish ou poisson-chat (*Amiurus catus*) Bull. Soc. Nat. Acclim., Paris, 1904, **51**, 292–298. 1904.1

Lamarck, *Jean Baptiste Pierre Antoine de Monet de* [1744–1829] For biography *see* Packard, A. S. Lamarck, the founder of evolution, etc. New York, 1901.

—— Philosophie zoologique, ou exposition des considérations relatives à l'histoire naturelle des animaux, etc. Paris, 1809. 8°. 1809.1

—— Zoological philosophy, an exposition with regard to the natural history of animals, by J. B. Lamarck. Translated by Hugh Elliot. London, 1914. xcii, 410 p. 8°. 1914.1

La Marre, *L. H. de,* & **Duhamel du Monceau,** *Henri Louis. See* footnote under **Duhamel du Monceau,** 1769.1.

Lamb, *Arthur B.* The development of the eye muscles in Acanthias. Amer. Journ. Anat., 1902, **1**, 185–202. 9 figs. — Tufts College Stud., no. 7, 275–292. 1902.1

Lambe, *Lawrence M.* New genera and species from the Belly river series (Mid-Cretaceous) Contrib. Canadian Palæont., Ottawa, 1902, **3**, 25–81. 2 pls. 1902.1

Myledaphus, Acipenser, Lepidotus, Rhineastes, Diphyodus.

—— The progress of vertebrate palæontology in Canada. Trans. Roy. Soc. Canada 1903 (1904), 2. ser. **10**, pt. 4, 13–56. 1904.1

—— Vertebrate palæontology. Summary Rept. Geol. Surv. Canada, 1904, 362–371. 1904.2

Contains references to fossil Amiidæ and Siluridæ.

—— Note on the age of the Horsefly, Similkameen and Tranquille Tertiary beds of the southern interior of British Columbia. Summary Rept. Geol. Surv. Canada, 1905, 137–138. 1905.1

Records presence of two species of Amyzon.

—— On *Amyzon brevipinne* Cope, from the Amyzon beds of the southern interior of British Columbia. Trans. Roy. Soc. Canada, 1906, 2. sér. **12**, sect. 4, 151–156. pl. 1906.1

—— The vertebrata of the Oligocene of the Cypress hills, Saskatchewan. Contrib. Canadian Palæont., 1908, **3**, pt. 4, 1–65. 8 pls. 1908.1

Pisces, p. 12–17. Amia, Amiurus, Lepidosteus Rhineastes.

—— Bibliography of Canadian zoology for 1907–1911 (exclusive of entomology) Trans. Roy. Soc. Canada 1908 (1909), 3. sér. **2**, 77–87. *Ibid.* 1909 (1910), **3**, 169–176. *Ibid.* 1910 (1911), **4**, 101–108. *Ibid.* 1911 (1912), **5**, 155–163. 1909.1

Numerous ichthyological titles are listed, as follows: **2**, p. 79–81; **3**, p. 170–171; **4**, p. 102–103; **5**, p. 157.

—— The fish-fauna of the Albert shales of New Brunswick. Amer. Journ. Sci., 1909, 4. ser. **28**, 165–174. 8 figs. 1909.2

Rhadinichthys, Elonichthys, Canobius.

—— Palæoniscid fishes from the Albert shales of New Brunswick. Contrib. Canadian Palæont., 1910, **3**, pt. 5, 1–35. 11 pls. 1910.1

Two of the plates illustrating this paper are reproduced from photographs of unpublished plates intended to accompany C. T. Jackson's Report on the Albert Coal mine of New Brunswick, etc., Boston, 1851. The plates were discovered by C. R. Eastman in the Yale museum.

—— Bibliography of Canadian Zoology for 1910 (exclusive of entomology) Trans. Roy. Soc. Canada, 1912, 3. ser. **5**, 155–163. 1912.1

—— The past vertebrate life of Canada. Presidential address. Trans. Roy. Soc. Canada 1911 (1912), 3. ser. **5**, sect. 4, 3–15. 1912.2

—— Bibliography of Canadian zoology for 1911 (Exclusive of entomology) Trans. Roy. Soc. Canada, 1913, 3. ser. **6**, sect. 4, 101–114. 1913.1

—— The occurrence of helodont teeth at Roche Miette and vicinity, Alberta. Bull. Victoria Mem. Mus., 1913, no. 1, 17–22. pl. & fig. 1913.2

—— Description of a new species of Platysomus from the neighborhood of Banff, Alberta. Trans. Roy. Soc. Canada, 1914, **8**, 17–23. fig. 1914.1

—— Ganoid fishes from near Banff, Alberta. Trans. Roy. Soc. Canada, 1916, 3. ser. **10**, 35–44. 3 pls. 1916.1

New species are described of Cœlacanthus and Elonichthys, from lower Triassic strata near Banff.

Lambe, *Lawrence M.*, & **Osborn,** *Henry Fairfield. See* **Osborn & Lambe.**

Lambert, *E. A.* Note sur une nouvelle station de la gremille, *Acerina cernua* Cuvier; son apparition dans la rivière de la Mayenne, suivie d'une liste des poissons signalés jusqu'à ce jour dans le département de la Mayenne. Bull. Soc. Ouest France, 1894, **4**, 13–16. 1894.1

Lambert, *E. M.* A plan for bass ponds. Trans. Amer. Fisheries Soc. 1904 (1905), 143–145. fig. 1905.1

Lambert, *G.* Poissons vivipares en Californie. Soc. Sci. Hainaut, Mons, 1845. 1895.1

Lambert, *Osmund.* Angling literature in England; and descriptions of fishing by the ancients; with a notice of some books on other piscatorial subjects. London, 1881. 87 p. 8°. 1881.1

—— Notice of Francis Marius Grapaldus' "De partibus ædum," etc., published in 1494. Academy, London, July 28, 1883, p. 64. 1883.1

—— Some gathering for the "Bibliotheca Piscatoria" Academy, London, 1883, no. 586, 63–64. 1883.2

Lambert, *T. S.* Petition of T. S. Lambert to the legislature of the state of New York, praying the appointing of a commission to consider the best means of stocking the waters of the state with fish. Albany [n. d.] 8°.

Lambkin, *J. Bayard.* The spawning habits of the large-mouth black bass in the south. Trans. Amer. Fisheries Soc. 1900 (1901), 129–131. 1901.1

—— A few points on the black bass for discussion. Trans. Amer. Fisheries 1902 (1903), 147–148. 1903.1

Lambl, *D.* Ryby adriatické [Fish of the Adriatic] Casopis Ceského Musea Praze, 1854, Rŏcník. **28**, 37–64; 167–192. 1854.1

Lamétherie, *Jean Claude de* [1743–1817] Description d'un poisson fossile trouvé dans un bloc de gypse de Montmartre. Journ. de Physique, 1803, **57**, 320. 1803.1

Lamie, *J.* Excursion dans la région des lacs d'Auvergne. Coexistence des isoetes et des truites dans les lacs pyrénées. Bull. Soc. Hist. Nat. Toulouse, 1903, **36**, 19–21. 1903.1

Lamiral, *E.* Mémoires sur la pisciculture et sur la culture des plantes sous-marines. Bull. Soc. Encour. Paris, 1851, **50**, 452–483. Also separate; Paris, 1851. 4°. 1851.1

—— Rapport sur une mission d'études relatives à la fécondation artificielle des œufs de poissons de mer. Bull. Soc. Acclim. Paris, 1864, 2. sér. **1**, 1–11. 1864.1

Lammers, *A.* Deutsche Seefischerei. Vierteljahresschr. Volkswirthsch., 1871, **33** (9. Jahrg. **1**), 35–65. 1871.1

Lamond, *H.* The sea-trout. London, 1916. xi, 219 p. 8°. 1916.1

Lamont, *A.* Notice of the colossal ray or skate [*Ceratoperia johnii* M. H.] with an account of the capture of one, at Port Royal, Jamaica. Edinb. Philos. Journ., 1824, **11**, 113–118. — Notizen (Froriep), 1824, **8**, no. 158, 53–56. 1824.1

Lamothe-Cadillac, —— Extracts from the memoirs of M. Lamothe-Cadillac respecting Acadia, New England, New Netherland and Virginia. N. Y. Hist. Coll., 1855, **9**, 546–550. 1855.1

Fishes of the river St. John, N. B., p. 547.

La Motte, *F.* Ueber die Durchforschung des Meeres nach den Aallaichplätzen. Mitth. Sect. Küsten Hochseefisch, 1893, 113–135. *Ibid.*, 1894, 173–180. 1893.1

Lamouroux, *Jean Vincent Félix* [1779–1825] Mémoire sur la montée. Trav. Labor. Caen, 1811–15, p. 13–18. — N. Bull. Soc. Philom. Paris, **3**, 181. 1811.1

Lampe, —— Dr. Lampe's Fischzucht. Populäres Handbuch der Anatomie, Arten, Pflege, Zucht und sämtlicher Krankheiten der Fische, sowie ein ausführliches Nachschlagewerk aller die Süsswasserfischerei betreffenden Verrichtungen. Berlin-Charlottenburg & Leipzig, 1909. 256 p. pl. & 336 figs. 8°. 1909.1

Lampert, *Kurt.* Ueber die Nahrung der Bachforelle und des Bachsaiblings. Allgem. Fischerei Zeitg., 1900, **25**, 273–279. 1900.1

—— Das Leben der Binnengewässer. 2. ed. Leipzig, 1910. 806 p. 17 pls. & 279 figs. 1910.1

Fische und Fischerei, p. 646–672.

Lamphear, *George.* Statistics on sales of fish in Fulton market. Trans. Amer. Fisheries Soc. 1880 (1881), 42–43. 1881.1

Lams, *Honoré.* Contribution à l'étude de la génèse du vitellus dans l'ovule des téléostéens. Arch. Anat. Microsc., 1904, **6**, 633–652. 2 pls. 1904.1

Lamy, *Isidore.* Eléments de pisciculture; ou, Résumé des expériences faites au Château de Maintenon. Paris, [n. d.] 18°.

—— Nouveaux éléments de pisciculture. Paris, 1866. viii, 93 p. 12°. 1866.1

Land, *Gordon.* Fresh and salt water eels. Forest & Stream, 1877, **8**, 261. 1877.1

—— Mountain trout (*Salmo virginalis*) Chicago Field, 1879, **12**, 164; 245. 1879.1

—— Singular incidents in trout raising. Chicago Field, 1880, **13**, 19. 1880.1

Land, *S. E.* Feeding trout fry, or the food problem solved. Trans. Amer. Fisheries Soc. 1897 (1898), 128–130. 1898.1

—— The black-spotted mountain trout (*Salmo stomias* and related species) Trans. Amer. Fisheries Soc. 1912 (1913), 183–198. 1913.1

Landacre, *F. L.* On the place of origin and method of distribution of taste buds in *Ameiurus melas*. Science, 1907, n. s. **25**, 735–736. — Journ. Comp. Neurol., **17**, 1–66. pl. & 4 figs. 1907.1

—— The epibranchial placodes of *Ameriurus melas* and *nebulosus*. Science, 1908, n. s. **27**, 913. 1908.1

—— The origin of the cranial ganglia in Ameriurus. Journ. Comp. Neurol., 1910, **20**, 309–411. 83 figs. — Anat. Record, **4**, 71–79. 3 figs. 1910.1

—— The epibranchial placodes of *Lepidosteus osseus* and their relation to the cerebral ganglia. Journ. Comp. Neur., 1912, **22**, 1–69. 58 figs. 1912.1

Landacre, *F. L.*, & **Conger,** *A. C.* The origin of the lateral line primordia in *Lepidosteus osseus*. Journ. Comp. Neurol., 1913, **23**, 575–633. 8 pls. 1913.1

Landau, *George.* Beiträge zur Geschichte der Fischerei in Deutschland. Die Geschichte der Fischerei in beiden Hessen. Kassel, 1865. 107 p. 8°. 1865.1

Landerer, *José J.* Principios de geología y paleontología. Barcelona, 1878. xiii, 431 p. illust. 8°. 1878.1

Landes, *Casimir.* Aquiculture. Aperçu général de la production des eaux et des divers procédés d'exploitation chez les différents peuples et dans tous les âges. Pisciculture et pêche. Toulouse, 1890. 1890.1

Landgraf, *Jean.* La pêche et la pisciculture en Hongrie. Etangs & Rivières, 1897, **10**, no. 221, 58–61. 1897.1

Landmark, *A.* Indberetning fra fiskeri-inspektoren angaaende hvad der i aarene 1874 og 1875 er foretaget til ferskvandsfiskeriernes fremme. Kristiania, 1876. 72 p. 4°. 1876.1

—— Om de försök, som i Norge under de senare åren blifvit företagna med märkning af lax och taimen. Fiskeritidskr. Finl., 1892, **1**, 118–122; 131–137. 1892.1

—— Uppfödning af laxyngel. Fiskeritidskr. Finl., 1897, **6**, 103–110. 1897.1

—— Unglaks i Fjord [Junger Lachs in norwegischen Fjorden] Norsk Tidskr. Fiskeri, 1909, **28**, 102–104. 1909.1

Landmark, *A.*, **Sars,** *G. O.*, & **Rasch,** *H.* *See* **Rasch, Landmark & Sars.**

Landois, *Hermann* [1835 —] Der Häring. Natur u. Offenbarung, 1866, **12**, 504–509. 1866.1

—— Der Aal. Natur. u. Offenbarung, 1868, **14**, 21–26. 1868.1

—— Beobachtungen über zwei in Westphalen bisher wenig beobachtete Fische, *Gasterosteus pungitius* L. und *Petromyzon planeri* Bl. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1871, 28. Jahrg. (3. ser. 8. Jahrg.), 53–57. 1871.1

—— Der kleine Stichling (*Gasterosteus pungitius* L.) und sein Nestbau. Zool. Garten, 1871, 12. Jahrg., 1–10. figs. — Natur & Offenbarung, 1871, **17**, 169–177. pl. 1871.2

—— Ueber die Lautäusserungen mancher Fische. Mitth. Naturw. Ver. Neu-Vorpommern Rügen, 1873–74, 5. & 6. Jahrg., 16–17. 1873.1

—— Ueber einige wenig bekannte kleine Fischarten, welche neuerdings in Westphalen gefunden wurden. 2. Jahresber. Westphäl. Prov. Ver. Wiss. & Kunst, 1874, 40–41. 1874.1

—— Die Familie Megistopodes, Riesenbauchflosser. Neues Jahrb. Mineral., 1894, **2**, 228–235. pl. 1894.1

Die Gattungen Cheirothrix und Megistopus; vermutliche Flugbewegung derselben.

—— Fisch-Hagel. 24. Jahresber. Westphäl. Prov. Ver., 1896, 25. 1896.1

—— Haben die Fische Gedächtniss? 25. Jahresber. Westphäl. Prov. Ver., 1897, 84. 1897.1

Landrieu, *Gustave.* La question de la rogue. C. R. Assoc. Franç. Avanc. Sci., 32. sess., 1904, pt. 2, 799–810. 1904.1

Landriot, —— [Lettre touchant les poissons fossiles renfermés dans les schistes de Muse] Bull. Soc. Géol. Paris, 1849, 2. sér. **6**, 90. 1849.1

—— Réponse aux réflexions de M. Delahaye [sur les fossiles des schistes de Muse (Saône-et-Loire)] Bull. Soc. Géol. Paris, 1850, 2. sér. **7**, 32–36. 1850.1

Landts, —— Vorsog til en beskrivelse over Färörne. Kjøbenhaven, 1800. 8°. 1800.1

Lane, *Henry H.* The ovarian structures of the viviparous blind fishes, Lucifuga and Stygicola. Biol. Bull. Wood's Hole, 1903, **6**, 38–54. 8 figs. 1903.1

—— On the ovary and ova of the Cuban cavefishes. Science, 1908, n. s. **27**, 951–952. 1908.1

Lane, *H. H.*
—— On the ovary and ova in Lucifuga and Stygicola (In Eigenmann, Carl H. Cave vertebrates of America, p. 226–232. 3 pls. Washington, 1909) 1909.1

Lang, *Arnold* [1855 —] Ob die Wassertiere hören? Mitt. Naturw. Ges. Winterthur, 1902. 1902.1

Lang, *Franz Vincenz,* & **Wirz,** *Ad.* Bericht über die Fischfauna des Cantons Solothurn. Solothurn, 1880. 7 p. 8°. 1880.1

Lang, *Gustav.* Das Gehörorgan der Cyprinoiden mit besonderer Berücksichtigung der Nervenendapparate. Zeitschr. Wiss. Zool., 1863, **13**, 2. Heft, 303–315. pl. 1863.1

—— De l'organe auditif des Cyprinoides, et du mode de terminaison des nerfs dans cet organe [Extrait] Arch. Sci. Phys. Nat. Genève, 1864, n. s. **19**, 251–253. 1864.1

Lang, *G. S.* The fisheries of Victoria. 3. Ann. Rept. Acclim. Soc. Victoria, 1864, 57–64. 1864.2

Lang, *Herbert.* Fishing with poison in Africa. Copeia, 1915, no. 25, 57–59. 1915.1

Lang, *William.* Fish and fishing of Oregon. Forest & Stream, 1879, **12**, 35. 1879.1

—— Pacific coast shad. Forest & Stream, 1879, **12**, 487. 1879.2

Lange, *J.,* **Reinhardt,** *J. T.,* **Schiödte,** *J. C.,* **Mörch,** *O. A. L.,* **Lütken,** *C. F.,* & **Rink,** *H.* *See* **Reinhardt, Schiödte** & others.

Langelaan, *J. W.* Over de vorm van het rompmyotom. Versl. Akad. Wet. Amsterdam., 1904, **13**, 50–57. pl. & 4 figs. — Proc. Sect. Sci. Acad. Wet. Amsterdam, **7**, 34–40. pl. & 4 figs. 1904.1

Langer, —— Ausländische Süsswasserfische. Isis (Russ), 1877, 2. Jahrg., 4–6; 102–103. pl. 1877.1

i. Teleskopfische, p. 4–5.
ii. Makropoden oder Grossflosser, p. 5–6.
iii. Der Gourami (*Osphromenus olfax*), p. 102–103.

Langer, *Carl.* Ueber Lymphgefässe des Darmes einiger Süsswasserfische. Sitzber. Akad. Wiss. Wien, 1870, **62**, Abth. 1, 161–170. pl. 1870.1

Langer, *Osw.* Die Zucht der Rivulus (insbesondere *R. poeyi*) Prakt. Zierfischzüchter, 1910, 3–5. 1910.1

Langer, *W. F.* Beiträge zur Morphologie der viviparen Cyprinodontiden. Morph. Jahrb., 1913, **47**, 193–307. 150 figs. 1913.1

Langerhans, *Paul* [1848?–1888] Ueber das Auge der Neunaugen. Tagebl. 46. Vers. Deutsch. Naturf., 1873, 69. 1873.1

—— Ueber *Petromyzon planeri.* Freiburg, 1873. 10 pls. 1873.2

—— Untersuchungen über *Petromyzon planeri.* Ber. Verh. Naturf. Ges. Freiburg, 1876, **6**, Heft 3, 1–114. Also separate; Freiburg, 1873. 114 p. 8°. 1876.1

—— Zur Anatomie des *Amphioxus lanceolatus.* Arch. Mikrosk. Anat., 1876, **12**, 290–348. 4 pls. 1876.2

Langguth, *George August* [1711–1782] Programma de torpedinibus quibusdam nothis. Wittenbergæ, 1774. 4°. 1774.1

—— Dissertatio inauguralis medica de torpedine veterum genere Raja, quam præside G. A. Langguth . . . disputabit J. S. T. Frenzel. Wittenbergæ, 1776. 38 p. 4°. 1776.1

—— De ortu piscium absque nuptiis pulchre fabulari, commentatio prior et posterior. Wittenbergæ, 1777. 4°. 1777.1

—— (*præses*) Dissertatio de torpedine recentiorum, genere Anguilla. Wittenbergæ, 1778. 4°. 1778.1
Respondens J. A. Garn.

—— Programma de nuptiis piscium innumerâ prole beatis. Wittenbergæ, 1780. 4°. 1780.1

Langhans, *Theodor.* Untersuchungen über die Sclerotica der Fische. Zeitschr. Wiss. Zool., 1865, **15**, 243–306. 2 pls. 1865.1

Langhoffer, *Aug.* Popis riba, koje su prispjele noradnom zooloskom muzeju u Zagrebu do konca godine 1900. Glasn. Hrvatsk. Narav. Druztra, Zagreb, 1904, **16**, 148–169. 1904.1

Langner, *Adolf.* Beobachtungen bei der Zucht des *Girardinus januarius* var.? (*reticulatus*) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 99–100. 1910.1

Langworthy, *C. F.* Fish as food. Washington, 1898. 30 p. 8°. 1898.1

Lanick, *A.* Der Seeteufel und ein Angel. Kosmos, Stuttgart, 1913, 10. Jahrg., 449–450. 1913.1

Lanine, *Pierre.* Des globules blancs éosinophiles dans le sang des poissons d'eau douce. Arch. Biol. Liège, 1912, **27**, 525–574. pl. — C. R. Assoc. Anatomistes, **13**, 228–229. 1912.1

Lankester, *Edwin* [1814–1874] The aquavivarium, fresh and marine. London, 1856. xii, 71 p. 18°. 1856.1

Lankester, (*Sir*) *Edwin Ray* [1847—] The Cradley Pteraspides. Geologist, 1861, **4**, 416. 1861.1

—— Pteraspis remains at Cradley. Geologist, 1861, **4**, 366–367; 375. 1861.2

—— Restoration of Pteraspis. Geologist, 1862, **5**, 451–452. *Ibid.*, 1864, **7**, 136. 3 figs. 1862.1

—— The Old Red Sandstone fishes of England. Pop. Sci. Rev., 1864, **3**, 441–447. 1864.1

—— On the discovery of the scales of Pteraspis, with some remarks on the cephalic shield of that fish. Quart. Journ. Geol. Soc., London, 1864, **20**, 194–197. pl. — Phil. Mag., **27**, 544–545. 1864.2

—— On the genus Pteraspis. Geol. Mag. 1864 (1865), **1**, 292–293. — Rept. Brit. Assoc. Adv. Sci., 34. meet., 1864 (1865), 58; 100. 1865.1

—— The buckler-head fish. Amer. Journ. Sci., 1866, 2. ser. **41**, 261. 1866.1

—— On the British species of Cephalaspis and the Scotch Pteraspis. Rept. Brit. Assoc. Adv. Sci., 35. meet., 1865 (1866), 65. — Geol. Mag., 1865, **2**, 517–518. 1866.2

—— On a new cephalaspid. Geol. Mag., 1867, **4**, 509. 1867.1
Plectrodus pustuliferus, n. sp.

—— On Didymaspis, a new genus of cephalaspidian fishes. Geol. Mag., 1867, **4**, 152–154. fig. 1867.2

—— Ueber Didymaspis, eine neue Gattung cephalaspisartiger Fische. Neues Jahrb. Mineral., 1867, 874. 1867.3

—— On the discovery of the remains of cephalaspidian fishes in Devonshire and Cornwall; and on the identity of Steganodictyum M'Coy, with genera of those fishes. Quart. Journ. Geol. Soc. London, 1868, **24**, 546–547. 1868.1

—— Carp and toads. Nature, 1870, **2**, 67. 1870.1

—— *Cephalaspis dawsoni.* Canadian Naturalist, 1870, n. s. **5**, 222–223. 1870.2

—— Note on *Scaphaspis knerii.* Geol. Mag., 1870, **7**, 398–399. 1870.3

—— On a new *Cephalaspis* [*dawsoni*] discovered in America. Geol. Mag., 1870, **7**, 397–398. pl. & 3 figs. 1870.4

—— [Letter on the supposed connexion between Scaphaspis and Pteraspis, and refuting Dr. Künth's theory of the connexion of these anomalous fishes with the Crustacea] Geol. Mag., 1873, **10**, 190–192; 478–479. 1873.1

—— On *Holaspis sericeus*, and on the relationships of the fish-genera Pteraspis, Cyathaspis and Scaphaspis. Geol. Mag., 1873, **10**, 241–245; 331–332. pl. & fig. 1873.2

—— On the primitive cell-layers of the embryo as the basis of genealogical classification of animals, and on the origin of vascular and lymphatic systems. Ann. Mag. Nat. Hist., 1873, 3. ser. **11**, 321–338. 1873.3

—— Magister Schmidt on the shields of Pteraspis and Scaphaspis. Geol. Mag., 1874, 2. ser. **1**, 288. 1874.1

—— On some new points in the structure of Amphioxus, and their bearing on the morphology of vertebrata. Quart. Journ. Micr. Sci., 1875, n. s. **15**, 257–267. figs. 1875.1

—— Notes on the embryology and classification of the animal kingdom, comprising a revision of speculations relative to the origin and significance of the germ-layers. Quart. Journ. Micr. Sci., 1877, n. s. **17**, 399–454. 1877.1
Classification of vertebrates and Pisces, p. 450–452.

—— On the hearts of Ceratodus, Protopterus and Chimæra, with an account of undescribed pocket valves in the conus arteriosus of Ceratodus and of Protopterus. Trans. Zool. Soc. London 1878 (1879), **10**, 493–505. 2 pls. Notice in Proc. Zool. Soc. London, 1878, 634. 1879.1

—— The scientific results of the exhibition. Inter. Fisheries Exhib. Lit., London, 1883. Conferences, **4**, pt. 9. 1883.1

—— Report on fragments of fossil fishes from the Palæozoic strata of Spitzbergen. Svensk. Vet. Akad. Handl. 1884, **20**, no. 9. 7 p. 4 pls. 1884.1

Lankester, *E. R.*

—— Contributions to the knowledge of *Amphioxus lanceolatus* Zarrell. Quart. Journ. Micr. Sci., 1889, **29**, 365–408. 5 pls. 1889.1

—— Vertebrata (In Encycl. Britann., 9. ed. 1889, vol. xxiv, p. 76–85) 1889.2

—— Zoology (In Encycl. Britann., 9. ed. 1889, vol. xxiv, p. 799–820) 1889.3

—— The advancement of science; occasional essays and addresses. London, 1890. viii, 387 p. 8°. 1890.1

Chap. ix. The history and scope of zoology, p. 289–307.

—— The limbs of *Lepidosiren paradoxa*. Nature, 1894, **49**, 555; 601. 3 figs. 1894.1

—— On the Lepidosiren of Paraguay, and on the external characters of Lepidosiren and Protopterus. Trans. Zool. Soc. London, 1896, **14**, 11–24. pl. & 4 figs. Abstract in Amer. Naturalist, 1897, **31**, 72. 1896.1

—— The taxonomic position of the Pteraspidæ, Cephalaspidæ and Asterolepidæ. Nat. Sci., 1897, **11**, 45–47. 1897.1

—— Note on the development of the atrial chamber in Amphioxus. Quart. Journ. Micr. Sci., 1898, n. s. **40**, pt. 4, 647–650. 1898.1

—— (*editor*) A treatise on zoology. London, 1900–09. 8°. 1900.1

Vol. ix. Vertebrata, Craniata (cyclostomes and fishes) by E. S. Goodrich. 7 pts. in 8. xvi, 518 p. 514 figs.

—— Alexander Kowalevsky [obituary notice] Nature, 1902, **66**, 394–396. 1902.1

—— Extinct animals. New York, 1905. xxiii, 331 p. 218 figs. 1905.1

Fishes, p. 243–268. Ostracoderms, arthrodires, dipterines and selachians are considered. Review in Geol. Mag., 5. dec. **2**, 513–515.

—— Science from an easy chair. 7. ed. London, 1911. xiii, 412 p. 84 figs. 8°. 1911.1

—— Zoology (In Encycl. Britann., 11 ed. 1911, vol. xxviii, p. 1022–1039) 1911.2

—— Science from an easy chair; a second series. London, 1912. xiii, 412 p. pl. & 55 illust. 8°. 1912.1

Coregonus, burbot and perch-pike in Switzerland, p. 3.

—— Diversions of a naturalist. London, 1915. xv, 424 p. 8°. 1915.1

Review in Nature, 1915, **97**, 342–343.

Lankester, *Edwin Ray,* & **Powrie,** *James.* *See* **Powrie & Lankester.**

Lankester, (*Sir*) *Edwin Ray,* & **Willey,** *Arthur.* The development of the atrial chamber of Amphioxus. Quart. Journ. Micr. Sci., 1890, **31**, 445–466. 1890.1

Lanman, *Charles.* American fishes. Amer. Whig Rev., 1846, **6**, 561. 1846.1

—— The Salmonidæ of eastern Maine, New Brunswick, and Nova Scotia. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 219–225. 1874.1

—— The shad and gaspereau or alewife of New Brunswick and Nova Scotia. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 461–462. 1874.2

—— The whitefish of eastern Maine and New Brunswick. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 84–86. 1874.3

—— Black bass of the Potomac. Forest & Stream, 1877, **8**, 194. 1877.1

—— Salmon fishery in the river Jacques Cartier. Forest & Stream, 1877, **8**, 418. 1877.2

—— Recollections of curious characters and pleasant places. Edinburgh, 1881. 8°. 1881.1

Salmon fishing on the Jacques Cartier, p. 147.
The Potomac fisherman, p. 219.
Sword-fish fishing, p. 250.
Block island, p. 266.

Lansdell, *H.* Russian central Asia, including Kuldja, Bokhara, Khiva and Merv. 2 vols. illust. London, 1885. 8°. 1885.1

Vol. ii, appendix, Pisces, by K. F. Kessler.

Lanszweert, —— A flying-fish, *Exocœtus fasciatus* Le Sueur, from the Pacific ocean. Proc. California Acad. Sci., 1855, **1**, 71–73. 1855.1

Lanza, *A.* Abeilles, vers à soie et pisciculture. Paris, 1862. 12°. 1862.1

Lanzi, *Luigi.* Contributo alla conoscenza della ontogenesi dei teleostomi (Olostei od Euganoidi e teleostei) Atti Accad. Fisiocrit. Siena, 1908, 4. ser. **20**, 246–247. 1908.1

—— Osservazioni sopra certi elementi della lamella di rivestimento degli embrioni di alcuni teleostei. Monit. Zool. Ital., 1909, **20**, 174–179. pl. — Arch. Ital. Biol., **53**, 122–123. 1909.1

—— Ricerche sui primi momenti di sviluppo degli Olostei (od Euganoidi) *Amia calva* Bonap. e *Lepidosteus osseus* L. Con speciale riguardo al così detto ispessimento prostomale. Arch. Ital. Anat. Embriol., 1909, **8**, 292–306. 4 pls. — Arch. Ital. Biol., **53**, 123–125. 1909.2

—— Recherches sur les premiers moments de développement de quelques téléostéens, spécialement par rapport à la valeur de ce qu'on appelle épaississement prostomal. Arch. Ital. Anat. Embriol., 1909, **8**, 307–358. 5 pls. & 4 figs. — Arch. Ital. Biol., 1910, **53**, 125–128. 1909.3

—— Observations sur certains éléments de la lame de revêtement des embryons de quelques téléostéens. Arch. Ital. Biol., 1910, **53**, 122–123. 1910.1

—— Contributo allo studio dei mostri doppi dei teleostei. Descrizione di duplicità anteriori di Salmo. Sguardo storico delle dottrine sul meccanismo della loro genesi e considerazioni relative alla formazione e allo accrescimento normale dell' embrione. Arch. Ital. Anat. Embriol., 1911, **9**, 510–569. 11 pls. & 25 figs. 1911.1

Lapham, *Increase Allen* [1811–1875] Wisconsin. Its geography and topography, . . . Geology. 2. ed. Milwaukee, New York & St. Louis, 1846. 208 p. 12°. 1846.1

List of fish in lakes and rivers, p. 71.

—— On fish-remains discovered in Wisconsin. Trans. Acad. Sci. St. Louis, 1859, 684. 1859.1

Lapicque, *Louis.* La grandeur relative de l'œil et l'appréciation du poids encéphalique. C. R. Acad. Sci. Paris, 1908, **147**, 209–212. 1908.1

Sparidæ.

Lapicque, *Louis,* & **Laugier,** *H.* Relation entre la grandeur des yeux et le poids de l'encéphale chez les vertébrés inférieurs. C. R. Mém. Soc. Biol. Paris, 1908, **64**, 1108–1110. 1908.1

Pagellus centrodontus, Cantharus griseus, Sparidæ.

Laporte, *E.* Faune ichthyologique de la Gironde. Bordeaux, 1853. 1853.1

—— Faune ichthyologique; ou, Histoire naturelle des poissons qui se trouvent dans le département de la Gironde. Bordeaux, 1856. 8°. 1856.1

Laporte, *François L. de, Comte de Castelnau. See* **Castelnau,** (*Comte*) *François L.*

Lapparent, *Albert Auguste de* [1839 —] Traité de géologie. Paris, 1881–83. 1280 p. 8°. 1881.1

—— The same. 2. éd. Paris, 1885. xv, 1504 p. 8°. 1885.1

—— The same. 5. éd. Paris, 1906. 1645 p. 8°. 1906.1

Lapparent, *Albert Auguste de,* **Delesse,** *Achille,* & **Laugel,** *M. A. See* **Delesse, Laugel & Lapparent.**

Larbalétrier, *Albert.* Traité manuel de pisciculture d'eau douce. Paris, 1886. 12°. 64 figs. 1886.1

—— La lamproie. Cosmos, 1898, 47. année, **2**, 810–813. fig. 1898.1

Largaiolli, *Vittorio.* I pesci del Trentino e nozioni elementari intorno all' organismo, allo sviluppo e alle funzioni della vita del pesce. I. Parte generale. Trento, 1901. 40 p. 35 figs. 1901.1

—— Distribuzione dei pesci nei bacini idrografici del Trentino. Rivist. Mens. Studi Sci., Trento, 1902, **5**, pt. 1, 23–24. *Ibid.*, pt. 2, 49–56. 1902.1

Large, *Thomas.* The destruction of a school of blue gills [*Lepomis pallidus* Mitch.] Proc. Indiana Acad. Sci. 1896 (1897), 303. 1897.1

—— The methods and extent of the Illinois ichthyological survey. Proc. Indiana Acad. Sci. 1900 (1901), 170–172. 1901.1

—— A list of the native fishes of Illinois, with keys. Rept. Fish Comm. Illinois 1900–1902 (1904). 30 p. 2 pls. 1904.1

La Riboisière, *J. de,* & **Magnan,** *A. See* **Magnan & La Riboisière.**

Larrabee, *A. P.* The optic chiasma of teleosts: a study of inheritance. Proc. Amer. Acad. Arts Sci., 1906, **42**, 217–231. 8 tables. 1906.1

Larrazet, *Augustin* [1855 —] Des pièces de la peau de quelques sélaciens fossiles. Bull. Soc. Géol. France, 1886, 3. sér. **14**, 255–277. 4 pls. 1886.1

Larruga, *D. Eugenio.* Memorias políticas y económicas sobre los frutos, comercio, fábricas y minas de Espanã,

Larruga, *D. E.* con inclusion de los reales decretos, órdenes cédulas. Aranceles y ordenanzas expedidas para su gobierno y fomento. Madrid, 1798. 1798.1

Larsson-Fede, *Bernt.* Fedefjorden [Fischerei-Verhältnisse im Fedejord] Norsk Tidskr. Fiskeri, 1908, **27**, 214–217. 1908.1

Lartet, *Louis,* & **Duparc,** (*Chaplain*) *L.* Une sépulture des anciens troglodytes des Pyrenées . . . associés à des dents sculptées, etc. Paris, 1874. 8°. 1874.1

Sculpture d'un brochet, avec figure, p. 42.

La Rue, *G. R.* A revision of the cestode family Proteocephalidæ. Zool. Anz., 1911, **38**, 473–482. 1911.1

Preliminary report on the most abundant type of fish tapeworms with descriptions of each species, including three new genera and nine new species.

Lasdin, *W.* [Der Bau und die Entwickelung des Schädels von Exocoetus] [Text in Russian] Trav. Soc. Imp. Nat. St. Pétersb., 1913, **44**, no. 1, 12–26. 1 pl. 1913.1

—— Die Entwickelung des Schädels von Exocœtus. Real. Soc. Nat. St. Pétersb., 1913, **44**, 110–112. 6 figs. 1913.2

Lasierra, *D. José Antonio.* Historia civil y natural de la isla de Menorca, etc., traducido del inglés de Jorje Armstrong. Madrid, 1781. 1781.1

Lastbohm, *J.* Dissertatio de piscinis. Upsala, 1764. 4°. 1764.1

Lastri, *Marco.* Bibliotheca Georgica, ossia catalogo ragionato degli scrittori di agricoltura . . . caccia, pesca, etc. . . . spettanti all' Italia. Firenze, 1787. 152 p. 4°. 1787.1

Lataste, *Fernand.* Sur les poissons vomis par les puits artésiens. Act. Soc. Sci. Chili, 1892, **1**, p. xxxviii–xxxix. 1892.1

—— Allures bizarres d'un esturgeon dans la Garonne. Bull. Soc. Centr. Aquicult. France, 1894, **6**. 1894.1

Latham, *John* [1740–1837] An essay on the various species of sawfish. Trans. Linn. Soc. London, 1794, **2**, 273–282. 2 pls. 1794.1

Latham, *John,* & **Davies,** *Hugh.* Faunula Indica, id est catalogus animalium Indiæ orientalis quae hactenus naturæ curiosis innotuerunt; secundus curis editus, correctus et auctus a J. H. Forster. Halæ, 1795. fol. 1795.1

Lathrop, *S. P.* On the resuscitation of frozen fish. Amer. Journ. Sci., 1852, **13**, 143. 1852.1

Latimer, *H. B.*, & **Evermann,** *Barton Warren.* *See* **Evermann & Latimer.**

Latorre, *Angel Cabrera.* *See* **Cabrera Latorre,** *Angel.*

La Tourrette, *Marc Antoine Louis Claret de Fleurieu de* [1729–1793] Sur le carpeau de Lyon. Observ. Mém. Phys. (Rozier), 1775, **6**, 271–280. 1775.1

Latreille, *Pierre André* [1762–1833] De l'organisation extérieure des céphalopodes comparée avec celle de divers poissons. Mém. Soc. Hist. Nat. Paris, 1823, **1**, 269–272. — Bull. Sci. Nat. (Férussac), **2**, 300. 1823.1

Latrobe, *Benjamin Henry.* Description of the *Clupea tyrannus.* Trans. Amer. Phil. Soc., 1802, **5**, 77–81. figs. 1802.1

—— A drawing and description of the *Clupea tyrannus* and *Oniscus prægustator.* Trans. Amer. Phil. Soc., 1802, **5**, 77–81. — Journ. Nat. Phil. (Nicholson), **5**, 1–4. 1802.2

Laube, *Gustav Carl* [1839 —] Ein Beitrag zur Kenntniss der Fische des böhmischen Turons. Denkschr. Akad. Wiss. Wien, 1885, **1**, pt. 2, 285–298. pl. & 2 figs. 1885.1

—— Bericht über Siluridenreste aus der böhmischen Braunkohlenformation. Verh. Geol. Reichsanst. Wien, 1897, 337–339. 1897.1

—— Neue Schildkröten und Fische aus der böhmischen Braunkohlenformation. Abh. Deutsch. Naturw. Ver. Böhmen "Lotos," 1900, **2**, 37–56. 4 pls. 1900.1

—— Salmonoiden aus der böhmischen Braunkohlenformation. Sitzber. Deutsch. Nat.-Med. Ver. Böhmen "Lotos," 1900, n. s. **20**, 15–20. 5 figs. 1900.2

—— Synopsis der Wirbelthierfauna der böhmischen Braunkohlenformation und Beschreibung neuer, oder bisher unvollständig bekannter Arten. Prag, 1901. 80 p. 8 pls. figs. 4°. 1901.1

—— Batrachier- und Fischreste aus der Braunkohle von Skiritz bei Brüx. Sitzber. Deutsch. Nat.-Med. Ver. Böhmen " Lotos," 1903, **51**, 106–114. 1903.1

—— Fischreste aus den Cyprisschiefern des Egerlandes. Sitzber. Deutsch. Nat.-Med. Ver. Böhmen " Lotos," 1905, **53**, 87–199. pl. 1905.1

Lauber, —— Augen vom Schwertfisch (*Xiphias gladius*) Zeitschr. Augenheilk., 1904, **10**, 84. 1904.1

Lauchert, *F.* Geschichte des Physiologus. Strasburg, 1889. 1889.1

Lauder, *(Sir) Thomas Dick.* Directions for taking and curing herrings, and for curing cod, ling, tisk, and hake. Edinburgh, 1846. 8°. 1846.1

—— Scottish rivers. Edinburgh, 1874. 328 p. illust. 8°. 1874.1

Laufer, *Berthold.* Fish symbols in China. Open Court, Chicago, 1912, **26**, 673–680. figs. 1912.1

Laugel, *M. A.*, **Delesse,** *Achille,* & **Lapparent,** *Albert Auguste de.* *See* **Delesse, Laugel & Lapparent.**

Laughrin, *William.* Observations on the choice of food in the cod [*Gadus morrhua*] and ling. Journ. Linn. Soc. London, 1862, **6**, 165–166. 1862.1

Laugier, *H.*, & **Lapicque,** *Louis.* *See* **Lapicque & Laugier.**

Laulanié, —— Technique physiologique. Sur un cardiographe direct à aiguille. C. R. Mém. Soc. Biol. Paris, 1889, 9. sér. **1**, 682–683. 1889.1

Lauman, *Felix A.* Some essentials in pond culture. Trans. Amer. Fisheries Soc. 1909 (1910), 149–150. 1910.1

Launay, *M.* Les poissons migrateurs et les échelles à poissons. Rev. Univers., Paris, 1901, 367–370. 6 figs. 1901.1

Launette, *P.* Observations sur la pêche de la sardine. Ann. Sci. Nat. (*Zool.*), 1882, 6. sér. **13**, no. 10. 1882.1

—— Recherches sur les lieux de frayères et le mode de ponte de la sardine. Lorient, 1888. 12 p. 8°. 1888.1

Launy, *L. de.* La science géologique. Paris, 1905. 8°. 1905.1

—— The same. 2. éd. Paris, 1913. 1913.1

Lauppe, *L.* Der Schlammbeisser, *Cobitis fossilis.* Aus d. Heimat, Stuttgart, 1903, **16**, 7–12. — Wochenschr. Aquar.-Terrar. Kunde, 1. Jahrg., 13–15; 20–22. 1903.1

—— Meine Beobachtungen beim Brutgeschäft des dreistachligen Stichlings (*Gasterosteus aculeatus*) Aus d. Heimat, Stuttgart, 1904, **17**, 113–120. 1904.1

—— Beiträge zur Biologie von *Badis badis.* Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 570–571. 1907.1

Laurent, *Ph.* Histoire des pêches fluviales et marines. Paris, 1833. 104 p. 32°. 1833.1

Laurie, *R. Douglas.* The fecundity of the plaice. Rept. Lancashire Sea-Fish. Labor., 1903, 73–76. — Trans. Liverpool Biol. Soc. 1904, **18**, 153–156. 1903.1

Laus, *Heinrich.* Die zoologische Literatur Mährens und Oesterr.-Schlesiens bis 1901. Zeitschr. Mähr. Landesmus., 1901, **1**, 31–67. 1901.1

—— Die naturhistorische Literatur Mährens und Schlesiens aus dem Jahre 1901. 4. Ber. Abh. Club Nat. Brünn, 1902, 62–66. 1902.1

—— Die naturhistorische Literatur Mährens und Schlesiens aus dem Jahre 1902. 5. Ber. Abh. Club Nat. Brünn, 1903, 11–15. 1903.1

—— Die naturwissenschaftliche Literatur über Mähren und Oesterr.-Schlesien von 1901 (1903, 1905) bis 1910 nebst Nachträgen. Zeitschr. Mähr. Landesmus., 1910, **10**, 223–271. 1910.1

Lauterborn, *Robert.* Ueber den Werth und die Aufgaben einer schwimmenden biologischen Station auf dem Oberrhein. Allgem. Fischerei Zeitg., 1900, **25**, no. 20, 365–367. 1900.1

—— Das Vogel-, Fisch- und Thier-Buch des Strassburger Fischers Leonhard Baldner. Nat. Wochenschr., 1901, **16**, 432–437. — Mitth. Fischerei-Ver. Prov. Brandenburg, 1901, Heft 2. 1901.1

—— *(editor)* Das Vogel-, Fisch- und Thierbuch des Strassburger Fischers Leonhard Baldner aus dem Jahre 1666. Ludwigshafen-am-Rhein, 1903. 167 p. 8°. 1903.1

Lauterborn, *R.*
—— Beiträge zur Fauna und Flora des Oberrheins und seiner Umgebung. Mitth. Pollichia, 1904, 60. Jahrg., 42–130. 1904.1

—— Die Flunder (*Pleuronectes flesus* L.) im Oberrhein. Allgem. Fischerei Zeitg., 1906, **31**, 470–472. 1906.1

La Valette St. George, *Adolf Johann Hubert von* [1831 —] De spermatosomatum evolutione in Plagiostomis [in *Galeus canis et Raia clavata*] Bonn, 1878. 9 p. 4°. 1878.1

—— Der Bruteimer. Circul. Deutsch. Fischerei Ver., 1879, no. 3, 107–108. figs. 1879.1

—— Uber die Feinde der Fische. Circul. Deutsch. Fischerei Ver., 1879, no. 3, 77–85. 1879.2

—— The enemies of fish [Translated from the German by H. Jacobson] Bull. U. S. Fish Comm. 1878 (1880), **6**, 509–516. 1880.1

—— Ueber den Bau der "Fettflosse" (pinna adiposa) Arch. Mikrosk. Anat., 1880, **17**, 187–193. 1880.2

—— Ein neuer Fischbrutapparat. Arch. Mikros. Anat., 1882, **21**, 240–243. illust. 1882.1

—— Ueber die Wanderfische des Rheins. Fischerei Zeitg., 1901, 4. Jahrg. 534–536. 1901.1

—— Ueber eine einfache Vorrichtung zum Zählen von Fisch-Eiern und Brut. Jahresber. Rhein. Fischerei Ver. 1901–02 (1902), 67–68. pl. 1902.1

Lavalle, *Jean* [1820 —] Note sur des expériences de pisciculture au jardin botanique de Dijon. Congr. Scient. France, 1854, **21**, 98–102. 1854.1

La Vallée Poussin, *Charles de. See* **De la Vallée Poussin,** *C.*

Lavauden, *Louis.* Recherches sur la biologie, l'élevage et l'acclimatation dans les eaux françaises du poisson-chat. Bull. Soc. Centr. Agricult. Pêche, 1905. 1905.1

—— Recherches sur la physiologie du poisson-chat (*Amiurus nebulosus* L. S.) C. R. Mém. Soc. Biol. Paris, 1905, **58**, 256–258. 1905.2

—— Repeuplement en salmonides des cours d'eau de montagne. Bull. Soc. Centr. Aquicult. Pêche, 1905, **17**, 191–198. 1905.3

Lavauden, *Louis,* & **Pion-Gaud,** *Pierre. See* **Pion-Gaud & Lavauden.**

Lavenier, —— Une carpe monstre. Bull. Soc. Etudes Scient. Angers, 1895, **24**, 169–170. 1895.1

Laver, *Henry.* Mammals, reptiles and fishes of Essex. London, 1898. viii, 138 p. 10 illust. 1898.1

—— Fishes (In Victorian history of the counties of England, Essex county, vol. i, p. 220–229. London, 1903) 1903.1

—— Salmon near Southend. Essex Natural., 1905, **14**, 72–73. 1905.1

Laveran, *A.* Dégénérescence granuleuse des hématies de l'hippocampe. C. R. Mém. Soc. Biol. Paris, 1900, **52**, 353–354. 1900.1

—— Sur une hémogrégarine de l'anguille. C. R. Mém. Soc. Biol. Paris, 1906, **1**, 457–458. 1906.1

Laveran, *A.,* & **Mesnil,** *F.* Deux hémogrégarines nouvelles des poissons. C. R. Acad. Sci. Paris, 1901, **133**, 572–577. figs. 1901.1

—— Sur les flagellés à membrane ondulante des poissons (genres Trypanosoma Gruby et Trypanoplasma n. gen.) C. R. Acad. Sci. Paris, 1901, **133**, 670–675. figs. 1901.2

—— Des trypanosomes des poissons. Arch. Protistenk., 1902, **1**, 475–498. figs. 1902.1
Literature references, p. 475.

—— Multiplication des trypanosomes des poissons. C. R. Acad. Sci. Paris, 1902, **134**, 1405–1409. 1902.2

—— Sur les hématozoaires des poissons marins. C. R. Acad. Sci. Paris, 1902, **135**, 567–570. 1902.3

Laveran, *A.,* & **Pettit,** *Auguste.* Sur une épizootie des truites. C. R. Acad. Sci. Paris, 1910, **151**, 421–423. 1910.1

Laville, *A.* Vertébrés fossiles du gypse parisien et du sannoisien des environs de Paris. Feuille Jeun. Natural., 1912, 5. sér. **42**, 61–65; 69–78. 1912.1

Lavizzari, *Luigi* [1814–1875] Escursioni nel cantone Ticino di Luigi Lavizzari, Dottore di scienze naturali. Lugano, 1859. 4 p. 12°. 1859.1

Lavocat, *A.* Construction de la ceinture scapulo-claviculaire dans la série des vertébrés. C. R. Acad. Sci. Paris, 1883, **97**, 1316–1319. 1883.1

—— Du rachis dans la série des animaux vertébrés. C. R. Acad. Sci. Paris, 1884, **99**, 1125–1127. 1884.1

—— Rachis des vertébrés. Mém. Acad. Sci. Toulouse, 1885, 8. sér. **7**, pt. 1, 23–54. 1885.1
Poissons, p. 31–33.

—— Appareil operculaire des poissons. Mém. Acad. Sci. Toulouse, 1888, 8. sér. **10**, 62–76. pl. 1888.1

—— Côtes et sternum des vertébrés. Mém. Acad. Sci. Toulouse, 1889, 9. sér. **1**, 39–55. pl. 1889.1

—— Les nageoires des poissons. Mém. Acad. Sci. Toulouse, 1896, 9. sér. **8**, 193–198. 1896.1

—— Les poissons actuels et fossiles. Mém. Acad. Sci. Toulouse, 1897, 9. sér. **9**, 138–154. 1897.1

Lavollée, *G.* Contribution à ’étude du poisson-chat, son acclimatation dans le réservoir de Saint-Fargeau (Yonne) Bull. Soc. Centr. Aquicult. Pêche, 1906, **18**, 289–298. 1906.1

Lavrov, *S.* Resultate der Untersuchungen der Würmerfauna des Wolga-Flusses und der Wiesenseen bei Saratov [Text in Russian] Trav. Soc. Nat., Saratov, 1908, **5**, pt. 2, 1–86. 2 pls. 1908.1
Contains some references to fishes.

—— Ueber die Pancreasgänge der Sterlets (*Acipenser ruthenus*) Zool. Anz., 1908, **33**, 408–409. fig. 1908.2

—— Ueber die Fischernährung des Wolga-Flusses [Text in Russian] Trav. Soc. Nat. Univ. Kasan, 1909, **42**, 1–87. 1909.1

Lawley, *Roberto.* Observations sur une mâchoire fossile provenant du genre Sphærodus trouvée en Toscane dans le Pliocène de Volterrano. Journ. Zool. (Gervais), 1875, **4**, 511–515. pl. — Addition by Paul Gervais. *Ibid.*, 516–517. 1875.1

—— Pesci ed altri vertebrati del Pliocene toscano. Pisa, 1875. 8°. 1875.2

—— Alcune osservazioni sul genere Sphærodus [Lepidotus] Agass. Atti Soc. Tosc. Sci. Nat. Pisa, 1876, **2**, 60–64. fig. 1876.1

—— Osservazioni sopra una mascella fossile del genere Sphærodus. Neues Jahrb. Mineral., 1877, 215–216. 1877.1

—— Confronto di denti fossili che si trovano nelle colline Toscane con la dentizione dell' *Oxyrhina spallanzanii* Bonp. vivente nel Mediterraneo. Atti Soc. Tosc. Sci. Nat. Pisa 1877 (1878), **3**, 343–349. 1878.1

—— Confronto di una mascella di *Carcharodon lamia* Rond. coi denti di Carcharodon fossili trovati nelle colline Toscane. Atti Soc. Tosc. Sci. Nat. Pisa 1877 (1878), **3**, 330–336. 1878.2

—— Monografia dei resti fossili del genere Notidanus rinvenuti nel Pliocene subappennino Toscano. Atti Soc. Tosc. Sci. Nat. Pisa 1877 (1878), **3**, 57–76. — Neues Jahrb. Mineral., 1877, 216–218. *Ibid.*, 1879, 723. — Verh. Geol. Reichsanst. Wien, 1876, 154–155. Also separate; Firenze, 1875. 36 p. 4°. 1878.3

—— Resti di un Oxyrhina rinvenuta alle case bianche presso alle saline di Volterra. Atti Soc. Tosc. Sci. Nat. Pisa 1877 (1878), **3**, 337–340. 1878.4

—— Nuovi denti fossili di Notidanus reperiti ad Orciano Pisano. Atti Soc. Tosc. Sci. Nat. Pisa 1879 (1880), **4**, pt. 2, 196–202. Abstract in Neues Jahrb. Mineral., 1880, **1**, 259. 1880.1

—— Resti fossili della selache [*Cetorhinus auratus*] trovati a Ricava presso Santa Luce nelle colline Pisane. Atti Soc. Tosc. Sci. Nat. Pisa 1879 (1880), **4**, 105–110. Abstract in Neues Jahrb. Mineral., 1880, **1**, 259. 1880.2

—— Studi comparativi sui pesci fossili coi viventi dei generi Carcharodon, Oxyrhina e Galeocerdo. Pisa, 1881. 25 pls. 4°. 1881.1

—— *Selache manzoni*, n. sp.; dente fossile della Molassa miocenica del monte Titano (repubblica di San Marino) Atti Soc. Tosc. Sci. Nat. Pisa 1881 (1882), **5**, 167–172. 6 figs. 1882.1

Lawrence, *George.* Note on a tumour attached to the stomach of a saithe. 13. Ann. Rept. Fish. Board Scotland, 1895, pt. 3, 236. 1895.1

Lawrence, *George W.* Presence of shad in the rivers tributary to the gulf of Mexico. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 392–393. 1874.1

—— On a mouthless fish. Proc. Acad. Nat. Sci. Philad., 1875, 125–126. 1875.1

Lawrence, *J. D.* Report of the deputy commissioner on the state hatcheries for the years 1904, 1905, 1906. Ann. Repts. Forest, Fish & Game Comm. New York, 1904–06, 139–148; 162–171; 172–176. pls. 1904.1

Lawrov, *S.* *See* **Lavrov,** *S.*

Lawson, *Hance.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 458. 1879.1

Lawson, *Henry* [1840?–1877] Herrings and herring fishing. Pop. Sci. Rev., 1864, **3**, 304–316. 1864.1

—— Is the whitebait [*Clupea harengus*] a distinct species? Pop. Sci. Rev., 1865, **4**, 477–486. fig. 1865.1

Lay, *G. T.*, & **Bennett,** *E. T.* Fishes (In The zoology of Captain Beechey's voyage, p. 41–75. pls. xv–xxiii. London, 1839) 1839.1

"The following comments on this work are by Dr. T. N. Gill:

"This volume is interesting as being the first publication in which any attempt has been made to scientifically indicate the fishes of the [Pacific] coast. The 'naturalist' of the expedition was, however, incompetent for the task, and the notes taken evince that he was not sufficiently versed in the rudiments of ichthyology to know what to observe. Nevertheless, the notes have an interest, if not of importance, enough to transcribe what relates to the regions in question. *Chimæra colliei*, sp. nov., is described at p. 71."

Layard, *Edgar Leopold* [1825?–1900] [Letter containing a description and drawings of a *Gymnetrus* (*capensis* [*Regalecus gladius*]) captured in Table bay] Proc. Zool. Soc. London, 1868, 319–322. fig. 1868.1

Layre, —— La pêche marine en Algérie. Bull. Soc. Centr. Aquicult. Pêche, 1899, **11**, 1–14. 1899.1

Lazdin, *V.* *See* **Lasdin,** *W.*

Lea, *Einar.* A study on the growth of herrings. Conseil Perm. Intern. Explor. de la Mer, Public. de Circonstance, 1911, no. 61, 35–57. 7 figs. 1911.1

—— Further studies concerning the methods of calculating the growth of herrings. Conseil Perm. Intern. Explor. de la Mer, Public. de Circonstance, 1913, no. 66, 1–36. 1913.1

—— (*editor*) Report on the scientific results of the "Michael Sars" north Atlantic deep-sea expedition 1910, carried out under the superintendence of Sir John Murray and Dr. Johan Hjort. Bergen, 1913. 1913.2

Lea, *Einar,* & **Hjort,** *Johan.* *See* **Hjort** & **Lea.**

Lea, *Isaac* [1792–1886] On some new fossil molluscs in the Carboniferous slates of the anthracite seams of the Wilkesbarre coal formation. Journ. Acad. Nat. Sci. Philad., 1853, 2. ser. **2**, pt. 4, 203–206. pl. 1853.1

Contains, at p. 206, description of *Palæoniscus? leidyiana.*

Leach, *E. F.*, & **Wright,** *C. E.* The fishes of Northamptonshire. Journ. Northamptonsh. Nat. Hist. Soc. Field Club, 1899, **10**, 209–216; 259–264. 1899.1

Leach, *F. S.* Plain instructions for the management of the aquarium, for gold and other fish, water-plants, insects, etc. London, 1856. 12°. 1856.1

Leach, *William Elford* (*editor*) [1790–1836] Fauna Orcadensis, etc. Edited from a manuscript by George Low. Edinburgh, 1813. 230 p. 4°. 1813.1

—— Description of a sword-fish [*Xiphias rondeletii*] found in the firth of Forth in June 1811. Mem. Wernerian Nat. Hist. Soc., Edinb., 1818, **2**, 58–60. figs. 1818.1

—— Some observations on the genus *Squalus* of Linné, with descriptions and outline figures of two British species [*Galeus mustelus, Squalus selanonus*] Mem. Wernerian Nat. Hist. Soc., Edinb. 1818, **2**, 61–66. pl. 1818.2

—— Description de deux espèces de *Thynnus* Fabr. [*Th. brownii, Th. variabilis*] découvertes dans la Nouvelle Hollande par Rob. Brown. Journ. de Physique, Paris, 1819, **88**, 178. 1819.1

Leary, *John L.* German carp. Amer. Fish Culturist, 1904, **1**, 10–11. 1904.1

—— Propagation of large-mouth black bass at San Marcos station. Trans. Amer. Fisheries Soc. 1903 (1904), 131–134. 1904.2

—— Construction of ponds and pond cultural methods. Trans. Amer. Fisheries Soc. 1904 (1905), 139–142. 1905.1

—— Planting fish versus fry. Trans. Amer. Fisheries Soc. 1907 (1908), 140–141. 1908.1

—— Description of San Marcos station with some of the methods of propagation in use at that station. Trans. Amer. Fisheries Soc. 1908 (1909), 75–78. 1909.1

—— Propagation of crappie and catfish. Trans. Amer. Fisheries Soc. 1909 (1910), 143–145. 1910.1

—— Brief notes on pond culture at San Marcos. Trans. Amer. Fisheries Soc. 1911 (1912), 149–152. 1912.1

Leathers, *Adelbert L.* A biological survey of the sand dune region on the south shore of Saginaw bay, Michigan. Public. Michigan Geol. Biol. Surv., 1911, no. 4 (Biol. Ser. no. 2), 243–255. pl. 1911.1

Lebailly, *Charles.* Sur quelques hémoflagellés des téléostéens marins. C. R. Acad. Sci. Paris, 1904, **139**, 576–577. 1904.1

—— Sur le hématozoaires nouveaux parasites de la barbue (*Bothus rhombus* L.) C. R. Mém. Soc. Biol. Paris, 1905, **59**, 304. 1905.1

—— Recherches sur les hématozoaires parasites des téléostéens marins. Arch. Parasit., Paris, 1906, **10**, 348–404. fig. 1906.1

Lebailly, *Charles,* & **Brumpt,** *E. See* **Brumpt** & **Lebailly.**

Lebasteur, *Henri* (*editor*) Buffon. Paris, 1889. 237 p. 6 pls. 2 illust. 8°. 1889.1

Lebeau, *J.,* & **Longuéty,** *L.* Rapport sur l'exposition internationale de pêche de Bergen, fait à la chambre de commerce de Boulogne-sur-Mer par J. Lebeau et Longuéty. Boulogne-sur-Mer, 1866. 8°. 1866.1

Lebedinsky, *J.* Ueber die Embryonalniere von *Calamoichthys calabaricus* Smith. Arch. Mikros. Anat., 1894, **44**, 216–228. pl. Review in Zool. Centralbl., **2**, 54–59. 1894.1

Lebedintsev, *A. A.* Die Hydrobiologie auf den internationalen Ausstellungen für Fischereigewerbe in St. Petersburg (1902) und für Hydrobiologie der Fischerei und Fischzucht in Moskau (1903) [Text in Russian] St. Petersburg, 1903. 81 p. 7 figs. 1903.1

—— Gasumtausch in abgeschlossenen Wasserbecken und seine Bedeutung für die Fischzucht [Text in Russian] Fischzuchtanstalt Nikolsk, 1904, no. 9, 113–133. 1904.1

—— Einfluss der Drehung der Erde auf die Fischerei [Text in Russian] Věst. Rybopromšl., St. Petersb., 1905, **20**, 441–442. 1905.1

—— Der kaspische Hering (*Clupea ponto-caspica* var. *braschnikowii*) des Frühlings- und Herbstfangs des Jahres 1904 nach der chemischen Analyse [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1905, **20**, 238–240. 1905.2

—— Laute Gedanken. Aus Anlass der Kaspi-Expedition des Jahres 1904 zur Erforschung des Häringszuges und der Häringsfischerei auf dem Kaspischen Meere [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1905, **20**, 424–433. 1905.3

—— War ein massenhaftes Absterben der Fische im Goktscha-See möglich? [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1905, **20**, 532–542. 1905.4

—— Ergebnisse der Analyse des Herbstwassers und der Planktonproben des Ilmen-Sees, Gouv. Novgorod [Text in Russian] Fischzuchtanstalt Nikolsk, 1908, **11**, 70–81. 1908.1

—— Ein Versuch zur Bestimmung des Fisch-Vorrates in den geschlossenen Binnenseen nach ihrem Sauerstoffgehalt [Text in Russian] Fischzuchtanstalt Nikolsk, 1908, no. 11, 81–111. 1908.2

—— Zur Frage ob die kleine Maräne (*Coregonus albula*) viel Nahrung zu sich nimmt und was ihr im See als Speise dient [Text in Russian] Věst. Rybopromšyl., St. Petersb., 1908, **23**, 1–4. 1908.3

Lebedintsev, *A. A.,* & **Eglit,** *P. I.* Das Laichen der kleinen Maräne (*Coregonus albula* L.) in dem Pestovo-See im Jahre 1907 [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1907, **22**, 536–546. 1907.1

—— Gelungene Zucht-Versuche mit *Coregonus albula* im Staatssee Pestovo, Gouvernement Nowgorod [Text in Russian] Fischzuchtanstalt Nikolsk, 1909, no. 12. 88 p. 2 pls. & 13 figs. 1909.1

Lebedintsev, *A. A.,* & **Matsubara,** *A. See* **Matsubara** & **Lebedintsev.**

Lebedintsev, *A. A.,* & **Nedšoivin,** *A.* Versuch einer Befruchtung mit in Alkohol aufbewahrter Milch [Text in Russian] Rybopron. Žizni, St. Petersb., 1912, 84–85. 1912.1

Lebert, *Hermann* [1813–1878] Sur la génération et le développement de quelque animaux marins. Proc. Verb. Soc. Philom. Paris, 1845. 1845.1

Lebert, *H.* Recherches sur la formation des muscles dans les animaux vertébrés, et sur la structure de la fibre musculaire, en général, dans les diverses classes d'animaux. Ann. Sci. Nat. (*Zool.*), 1849, 3. sér. **11**, 349–382. 3 pls. *Ibid.*, **13**, 158–217. 3 pls. — C. R. Mém. Soc. Biol. Paris, 1849, 53–61. 1849.1

Leblanc, —— Sur la construction des étangs et sur le débit des poissons. Mém. Soc. Roy. Agricult. Paris, 1787, p. 99. 1787.1

Le Boux, *Marc.* Recherches sur le système nerveux des poissons. Inaug. Dissert., Paris, 1887. 1887.1

Leche, *Wilhelm* [1850 —] Sven Hedin. Scientific results of a journey in central Asia 1899–1902. Stockholm, 1904. 69 p. 5 pls. 80 figs. 4°. 1904.1

Zoologie, vol. vi, pt. 1.

Leckenby, *John.* On a species of pipe-fish (*Syngnathus æquoreus?*) lately found at Scarborough. Ann. Mag. Nat. Hist., 1858, 3. ser. **2**, 416–417. pl. 1858.1

Leclerc de Buffon, (*Comte*) *Georges Louis. See* **Buffon,** *G. L. L. de.*

Le Conte, *John Lawrence* [1825–1883] Remarks on the occurrence and habits of *Anableps doweri* Gill. Proc. Acad. Nat. Sci. Philad., 1861, 21. 1861.1

Le Conte, *Joseph* [1823–1901] Elements of geology, a text-book for colleges and for the general reader. New York, 1878. xii, 588 p. 8°. 1878.1

Contains considerable mention and numerous figures of fossil fishes.

—— The same. 3. ed. New York, 1891. xvii, 640 p. 8°. 1891.1

—— The same. 4. ed. New York, 1905. 1905.1

The account of fossil fishes is revised by C. R. Eastman.

Lecoq, *Henri* [1802–1871] De la pisciculture dans le département du Puy-de-Dôme. Bull. Soc. Acclim. Paris, 1860, **7**, 578–589. — Mém. Acad. Sci. Clermont, 1861, **3**, 29–41. 1860.1

Le Couteulx de Canteleu, (*Comte*) *J. E. H.* La pêche au cormoran. Paris, 1870. 2 pls. 8°. 1870.1

Le Damany, *P.* Quelques remarques sur l'evolution générale des membres dans la série des vertébrés. Trav. Scient. Univ. Rennes, 1902, **1**, 333–338. — Bull. Soc. Scient. Méd. Ouest Rennes, **11**, 367–371. 1902.1

Le Danois, *Edouard.* Conditions de la pêche à Roscoff et engins de pêche employés dans la région. Bull. Navig. et Pêches Marit., 1909, **11**, 375–386. 1909.1

—— Sur la présence du *Gobius pictus* Malm en France. Bull. Soc. Zool. France, 1909, **34**, 86. 1909.2

—— Sur la faune ichthyologique du maërl. Bull. Soc. Zool. France, 1910, **35**, 167–171. 5 figs. 1910.1

—— Sur la ponte de *Cottus bubalis* Euphrasen. Bull. Soc. Zool. France, 1911, **36**, 144–146. 2 figs. 1911.1

—— Collections rapportées au Muséum d'Histoire Naturelle par la mission arctique française 1908. Liste des poissons. Bull. Mus. Hist. Nat. Paris, 1913, 424–427. 1913.1

—— Contribution à l'étude systematique et biologique des poissons de la Manche occidentale. Paris, 1913. 214 p. illust. 4°. 1913.2

—— Croisières scientifiques du "Pourquoi-Pas" 1912 et 1913. Liste des poissons. Bull. Mus. Hist. Nat. Paris, 1913, 428–431. 1913.3

—— Etude systématique et biologique des poissons de la Manche occidentale. Ann. Instit. Océan. Monaco, 1913, 5. sér. **5**, 1–214. 1913.4

—— *Motella cimbria* Linné 1766. Un poisson à ajouter à la faune de France. Bull. Soc. Zool. Paris, 1913, **38**, 228–232. 1913.5

—— Note sur un nouveau poisson de la famille des Lycodidæ: le *Gymnelis retrodorsalis*, nov. sp. Bull. Soc. Zool. Paris, 1913, **38**, 258–259. 1913.6

—— Etudes sur quelques poissons des océans arctique et atlantique. Ann. Instit. Océan. Monaco, 1914, 5. sér. **7**, fasc. 2, 1–75. pl. 1914.1

Ledoux-Lebard, —— Sur le bacille de la tuberculose des poissons. C. R. Mém. Soc. Biol. Paris, 1898, p. 601. 1898.1

Ledru, *André Pierre* [1761–1825] Voyage aux îles de Téneriffe, la Trinité, Saint-Thomas, Sainte-Croix et Porto-Rico, exécuté par ordre du gouvernement français, depuis le 30 septembre 1796, jusqu'au 7 juin 1798, sous la direction du Capitaine Baudin, pour faire des recherches et des collections relatives à l'histoire naturelle; contenant des observations sur le climat, le sol, la population, l'agriculture, les productions de ces îles, le caractère, les mœurs et le commerce de leurs habitants. Par André-Pierre Ledru, l'un des naturalistes de l'expédition . . . ouvrage accompagné de notes et d'additions, par M. Sonnini. 2 vols. Paris, 1810. 8°. 1810.1

—— Reise nach den Inseln Teneriffa, Trinidad, St. Thomas, St. Cruz, und Porto-Rico, 1796–98, unter der Leitung des Captain Baudin. Aus dem Französischen, mit Bemerkungen ueber Colonialwaren von E. A. W. Zimmermann. 2 vols. Leipzig, 1811–12. 8°. 1811.1

Another edition. Leipzig, 1812–14. 8°.

—— Viage a la isla de Puerto-Rico en el ano 1797, ejecutado por una comisión de sabios Franceses, de órden de su gobierno y bajo la dirección del capitan N. Baudin, con objeto de hacer indicaciónes y colleccións relativas a la historia natural . . . Traducido al Castellano por D. Julio L. de Viscarrondo. Puerto-Rico, 1863. 268 p. 8°. 1863.1

This is a Spanish translation of so much of Ledru's "Voyage" (1810) as relates to Porto Rico.

Ledyard, *L. W.* Rotation of fish in Cazenovia lake. Forest & Stream, 1873, **1**, 290. 1873.1

Lee, *Frederic S.* A study of the sense of equilibrium in fishes. I. Journ. Physiol., 1894, **15**, 311–348. 15 figs. II *Ibid.*, 1895, **16**, 192–210. 12 figs. Notice in Science, n. s. **1**, 118. — Centralbl. Physiol., **9**, 47. 1894.1

—— The functions of the ear and the lateral line in fishes. Amer. Journ. Physiol., 1898, **1**, 128–144. Abstract in Rept. Brit. Assoc. Adv. Sci., 67. meet., 1897, 811–812. 1898.1

Lee, *Henry* [1826–1888] Chinese telescope fish and hairy tortoise. Forest & Stream, 1875, **5**, 195. 1875.1

—— Some fishes and fishing. Forest & Stream, 1875, **5**, 225. 1875.2

—— Sea fables explained. Sea monsters unmasked. Intern. Fisheries Exhib. Lit., London, 1883. Handbooks, **3**, pt. 3. 1883.1

Lee, *L. A.* Occurrence of the web-fingered sea-robin [*Prionotus carolinus* Cuv. Val.] on the coast of Maine. Amer. Naturalist, 1880, **14**, 896. 1880.1

Lee, *Robert James.* Observations on the ciliary muscle in fish, birds and quadrupeds. Journ. Anat. Physiol., London, 1869, 2. ser. **3**, 14–23. 9 figs. 1869.1

Lee, *Rosa M.* Report on the Lowestoft sailing trawler records, 1903–1906. 2. Rept. North Sea Fish Invest. Comm., 1909, pt. 2, 89–112. 3 pls. 1909.1

—— Report on the Grimsby steam trawler records 1904–1907. 3. Rept. North Sea Fish. Invest. Comm. 1906–08 (1911). 108 p. 98 figs. 33 tables. 1911.1

—— Comparative notes on various trawler catches in the North sea, including some steam trawler records for 1903 and 1905. 4. Rept. North Sea Fish. Invest. Comm. 1909 (1912), 291–303. fig. 1912.1

—— An investigation into the methods of growth determination in fishes. Conseil Perm. Explor. de la Mer, Public. de Circonstance, 1912, no. 63, p. 36. 1912.2

Lee, *Rosa M.*, & **Atkinson,** *George T.* Report on plaice transplantation experiments to various fishing grounds in the North sea. 4. Rept. North Sea Fish. Invest. Comm. 1909 (1912), 107–151. 4 pls. & fig. 4 tables. 1912.1

Lee, *(Mrs.) Sarah*, formerly **Bowdich.** *See* **Bowdich,** *(Mrs.) Thomas Edward.*

Leeds, —— List of vertebrata discovered by Messrs. Leeds in the Oxford Clay of the neighbourhood of Peterborough. Proc. Geol. Assoc. London, 1897, **15**, 189–193. 1897.1

Leeke, —— Ueber Schlafstellungen der Fische. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 779–782. 1912.1

Leem, *Knud* [1697–1774] Beskrivelse over Finmarkens Lapper, etc. Kopenhan, 1767. 8°. 1767.1

Latin version, Hafniæ, 1767. 4°. — German version, translated by J. J. Volkmann. Leipzic, 1771. 8°.

Lefebre, *Alphonse.* Temperature maxima que peuvent supporter les poissons rouges. Bull. Soc. Linn. Nord France, 1872, **1**, 149–151. 1872.1

—— Quelques mots sur le macropode de Chine [*Polyacanthus viridiauratus*] Mém. Soc. Linn. Nord France 1874–77 (1877), **4**, 93–102. 1877.1

Lefebre, *A.*

—— Etudes de pisciculture. Bull. Soc. Linn. Nord France, 1881, **5**, 281–283. 1881.1

—— Jeunes poissons obtenus du croisement de telescope avec poisson rouge. Bull. Soc. Linn. Nord France, 1881, **5**, 116–120; 163. 1881.2

—— The proposed introduction of American catfish into the rivers of Belgium. Bull. U. S. Fish Comm. 1882 (1883), **2**, 153–154. 1883.1

—— Visite à quelques établissements de pisciculture. Bull. Soc. Linn. Nord France, 1887, **8**, 260–264. 1887.1

—— Essais de pisciculture dans la Somme. Bull. Soc. Linn. Nord France, 1893, **11**, 179–185. 1893.1

—— Elevage des saumons de Californie et des truites arc-en-ciel à Amiens. Bull. Soc. Acclim. Paris, 1896, **43**, 125–126. 1896.1

—— Elevage de la perche diamant. Bull. Soc. Linn. Nord France, 1909, **19**, 180–182. 1909.1

Lefevre, *G.*, & **Curtis,** *W. C.* Reproduction and parasitism in the Unionidæ. Journ. Exper. Zool., 1910, **9**, 79–115. 5 pls. 1910.1

Infections observed in nature during November; roach, carp, perch, bluegill, rock bass, etc. Only 1 to 20 glochidia on each fish.

Lefevre, *George Shaw,* **Caird,** *James,* & **Huxley,** *Thomas H.* *See* **Caird, Huxley** & **Lefevre.**

Le Fort, *Raymond.* Le sandre commun (*Lucioperca sandra*) Bull. Soc. Acclim. Paris, 1909, **56**, 22–30. 1909.1

Légal, *Joseph.* Documents sur les pêches cotières, législation, industrie, commerce. Dieppe, 1869. viii, 358 p. 8°. 1869.1

Le Gentil, —— *See* **Gentil,** —— *le.*

Léger, *Louis.* Mutilation pathologique et régénération chez le protoptère. C. R. Mém. Soc. Biol. Paris, 1897, 2. sér. **4**, 543–545. 1897.1

—— Hémoflagellés des poissons d'eau douce. Leur forme dans les sangsues. Bull. Assoc. Franç. Avanc. Sci., 1904, no. 9, 268. 1904.1

—— Poissons et pisciculture dans le Grésivaudan. Grenoble, 1904. 1904.2

—— Sur la morphologie du Trypanoplasma des vairons. C. R. Acad. Sci. Paris, 1904, **138**, 824–826. 1904.3

—— Sur les hémoflagellés du *Cobitis barbatula* L. I. *Trypanosoma barbatulæ,* n. sp. C. R. Mém. Soc. Biol. Paris, 1904, **56**, pt. 2, 344–345. 1904.4

—— *Trypanoplasma varium,* n. sp., parasite du sang de *Cobitis barbatula* L. C. R. Mém. Soc. Biol. Paris, 1904, **56**, pt. 2, 345–347. 1904.5

—— Coup d'œil sur la faune ichthyologique des eaux courantes du Grésivaudan. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1905, 760–762. 1905.1

—— Deux nouvelles myxosporidies parasites des poissons d'eau douce. Bull. Assoc. Franç. Avanc. Sci., 1905, no. 9, 331. 1905.2

—— Sur la culture intensive de l'omble-chevalier en espace limité. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1905. 1905.3

—— Sur la présence d'un Trypanoplasma intestinal chez les poissons. C. R. Mém. Soc. Biol. Paris, 1905, **57**, 511–513. 1905.4

—— La valeur nutritive des torrents des Alpes et les conséquences qui en découlent au point de vue du repeuplement. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1905, 780–784. 1905.5

—— Argules et salmoniculture. Bull. Soc. Centr. Aquicult. Pêche, 1906, **18**, 41–47. — Ann. Univ. Grenoble, Paris, 1906, **18**, 49–55. fig. 1906.1

—— Sur une nouvelle maladie myxosporidienne de la truite indigène. C. R. Acad. Sci. Paris, 1906, **142**, 655–656. 1906.2

—— Sur une nouvelle myxosporidie de la tanche commune. C. R. Acad. Sci. Paris, 1906, **142**, 1097. 1906.3

—— Campagne 1905–1906. Rapport présenté au conseil général. La pisciculture. Ann. Univ. Grenoble, 1907, **19**, 115–119. 1907.1

—— Le laboratoire de pisciculture de l'Université de Grenoble, son rôle et son fonctionnement. Notice abrégée. Ann. Univ. Grenoble, 1907, **19**, 103–112. 2 pls. 1907.2

2. ed. Grenoble, 1908.

—— Manuel pratique du déversement d'alevins dans les cours d'eau; conférences faites au laboratoire de pisciculture sur le repeuplement des eaux douces. Grenoble, 1908. 1908.1

—— La costiase et son traitement chez les jeunes alevins de truite. C. R. Acad. Sci. Paris, 1909, **148**, 1284–1286. — Ann. Univ. Grenoble, **21**, 437–440. 1909.1

—— Etudes sur le rendement cultural des eaux alpines. Pisciculture. Ann. Univ. Grenoble, 1909, **21**, 195–221. 4 pls. & 2 figs. 1909.2

—— Poissons et pisciculture dans le Dauphiné. Ann. Soc. Touristes Dauphiné, Grenoble, 1909, **34**, 279–352. 1909.3

—— Reserves pour la reproduction du poisson dans les cours d'eau du departement de l'Isère. Trav. Labor. Piscicult. Univ. Grenoble, 1909, pt. 2. 1909.4

—— Dossiers piscicoles des cours d'eau alpins. Ann. Univ. Grenoble, 1910, **22**, 569–602. 2 figs. — Trav. Labor. Piscicult. Univ. Grenoble, 1910, pt. 1. 1910.1

—— Le goût de vase chez les poissons d'eau douce. C. R. Acad. Sci. Paris, 1910, **151**, 900–902. — Ann. Univ. Grenoble, 1911, **23**, 135–138. pl. — Trav. Labor. Piscicult. Univ. Grenoble, 1910, pt. 2. pl. 1910.2

—— Principes de la méthode rationnelle du peuplement des cours d'eau à salmonides. Bull. Soc. Aquicult. Pêche, 1910, **22**, 241–269. — Ann. Univ. Grenoble, **22**, 533–602. 1910.3

—— Sur la présence du barbeau méridional dans les Alpes du Dauphiné. Ann. Univ. Grenoble, 1910, **22**, 157–163. 4 pls. & fig. — Trav. Labor. Piscicult. Univ. Grenoble, 1910, pt. 1. — Bull. Soc. Dauphinoire Etudes Biol., **1**, pt. 2, no. 2, 31–37. 1910.4

—— Etudes sur l'action nocive des produits de deversements industriels chimiques dans les eaux douces. 2^e^ serie. Eaux de decapages des metaux. Trav. Labor. Piscicult. Univ. Grenoble, 1911. — Ann. Univ. Grenoble, 1912, **24**, no. 1. 1911.1

—— Elevage intensif de la truite en espace limité. Conditions nécessaires à sa réalisation. Ann. Univ. Grenoble, 1913, **25**, 527–535. 1913.1

—— Essai sur la mise en valeur piscicole des lacs alpins de haute altitude. Expériences et conclusions. Ann. Univ. Grenoble, 1913, **25**, 501–525. 5 pls. 1913.2

Léger, *Louis,* & **Dodero,** *G.* Action nocive exercée sur les poissons par certains produits de déversements industriels dans les torrents du dauphiné. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1905, 765–773. 1905.1

Léger, *Louis,* & **Duboscq,** *O.* Notes sur les infusoires endoparasites. Arch. Zool. Expér. Gén., 1904, 4. sér. **2**, 337–356. pl. 1904.1

—— Sur la signification des "Rhabdospora," prétendus sporozoaires parasites des poissons. Ann. Univ. Grenoble, 1910, **22**, 173–176. — C. R. Acad. Sci. Paris, **148**, 1547–1549. — Trav. Labor. Piscicult. Univ. Grenoble, 1910, pt. 1. 1910.1

Léger, *Louis,* & **Hesse,** *E.* Sur une nouvelle myxosporidie parasite de la sardine. C. R. Acad. Sci. Paris, 1907, **145**, 85–87. 1907.1

Léger, *Maurice.* Observation concernant une anomalie du cervelet d'un *Alopias vulpes.* Bull. Soc. Philom. Paris, 1887, 7. sér. **11**, 160–163. 1887.1

Legoff, *A.*, & **Tourneux,** *F.* Rayons ostéoïdes de la nageoire caudale de jeune torpille. C. R. Mém. Soc. Biol. Paris 1875 (1876), 6. sér. **2**, 300–301. 1876.1

Legouis, *S.* Sur le pancréas des poissons osseux, et sur la nature des vaisseaux découverts par Weber. C. R. Acad. Sci. Paris, 1870, **70**, 1098–1101. — Ann. Mag. Nat. Hist., 4. ser. **5**, 453. 1870.1

—— Recherches sur les tubes de Weber et sur le pancréas des poissons osseux. Ann. Sci. Nat. (*Zool.*), 1873, 5. sér. **17**, 1–107. pls. *Ibid.*, 1873, **18**, 1–184. 3 pls. 1873.1

—— Recherches sur le pancréas des cyclostomes et sur le pancréas et le foie dénués de canal adducteur propre chez le *Petromyzon marinus.* Ann. Soc. Sci. Bruxelles, 1882, **6**, pt. 2, 247–269. *Ibid.*, **8**, pt. 2, 187–313. — C. R. Acad. Sci. Paris, **95**, 305–308. 1882.1

Le Grand d'Aussy, *Pierre Jean Baptiste* [1737–1800] Le histoire de la vie privée des François depuis l'origine de la nation jusqu'à nos jours. 3 vols. Paris, 1782. 8°. 1782.1

Poissons, tome ii, p. 54–68.

Le Grand d'Aussy, *P. J. B.*
—— Étude sur la pêche en France. Paris, 1864. 8°. 1864.1

Legros, *Robert.* Sur la morphologie des glandes sexuelles de l'*Amphioxus lanceolatus.* C. R. 3. Congr. Intern. Zool. Leyde, 1896, 487–500. pl. 1896.1

—— Développement de la cavité buccale de l'*Amphioxus lanceolatus.* Contribution à l'étude de la morphologie de la tête. Arch. Anat. Micr., 1898, **1**, 497–542. 3 pls. *Ibid.*, 1899, **2**, 1–43. 2 pls. & 6 figs. 1898.1

—— Anatomie de l'appareil vasculaire de l'*Amphioxus lanceolatus.* C. R. Assoc. Franç. Avanc. Sci., 28. sess., 1900, pt. 1, 272–273. 1900.1

—— Contribution à l'étude de l'appareil vasculaire de l'Amphioxus. Circulation des parois de corps. Mitth. Zool. Stat. Neapel, 1902, **15**, 487–554. 4 pls. 1902.1

—— Recherches sur l'appareil branchial des vertébrés. Première note préliminaire: l'évolution des arcs aortiques des téléostéens. C. R. Assoc. Anat., Nancy, 1903, **5**, 170–178. 5 figs. 1903.1

—— Sur quelques cas d'asyntaxie blastoporale chez l'Amphioxus. Mitth. Zool. Stat. Neapel, 1907, **18**, 440–534. 3 pls. & 6 figs. 1907.1
Index bibliographique, p. 531–532.

—— Sur le développement des fentes branchiales et des canalicules de Weiss-Boveri chez Amphioxus. Anat. Anz., 1909, **34**, 126–151. 14 figs. 1909.1

—— Sur quelques points de l'anatomie et du développement de l'Amphioxus. Notes préliminaires. Anat. Anz., 1910, **35**, 561–587. 7 figs. 1910.1

Lehmann, *Adolf.* Das Laichgeschäft bei Eleotris spec? Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 401–402. 1911.1

—— Zucht und Pflege des *Pantodon buchholzi.* Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 627–629. fig. 1912.1

Lehmann, *Martin Christian Gottlieb* [1775–1856] Ueber einem riesen Hay (*Squalus maximus*) Neue Schrift. Gesell. Naturf. Freunde Berlin, 1803, **4**, 120. fig. 1803.1

Lehmkuhl, *H. C.*, **Blytt,** *H. H. P.*, & others. *See* **Blytt, Lehmkuhl & others.**

Lehner, *Gebr.* Lachse in der Aare und Garnfalle. Schweiz. Fischerei Zeitg., 1893, **1**, 29. Also separate; Pfäffikon-Zürich, 1893. 1 p. 8°. 1893.1

Lehner, *H.* Die Lachsgarnfallen. Schweiz. Fischerei Zeitg., 1895, **3**, 65–67. Also separate; Pfäffikon-Zürich, 1895. 2 p. 8°. 1895.1

Lehners, ——, & **Rump,** —— *See* **Rump & Lehners.**

Lehnert, *Konrad. Osphromenus trichopterus.* Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 522–523. 1910.1

Le Hon, *Henri* [1809–1872] Terrains tertiares de Bruxelles; leur composition, leur classement, leur faune et leur flore. Bull. Soc. Géol. France, 1862, 2. sér. **19**, 804–832. 3 figs. 1862.1
Liste des poissons fossiles, p. 812.

Leiber, *Adolf,* & **Neikert,** *Ludwig. See* **Neikert & Leiber.**

Leiblein, —— Versuch einer Aufzählung der Fische des Maingebietes. Correspbl. Zool.-Mineral. Ver. Regensburg, 1853, **7**, 97–127; 183–185. 1853.1

Leidenfrost, *Gyula.* Uj hal a Querneroból [Neuer Fisch aus dem Quarnero, *Syngnathus phlegon* Risso] Állatt. Közlem. Köt., Budapest, 1908, **7**, 26–30. fig. 1908.1

—— Fishes from Asia Minor [Text in Hungarian] Állatt. Közlem. Köt., Budapest, 1912, **11**, 125–132; 159. 2 figs. 1912.1

—— The Lepadogaster species of the Adriatic [Text in Hungarian] Állatt. Közlem. Köt., Budapest, 1912, **11**, 159–160. 1912.2

Leidy, *Joseph* [1823–1891] For biographical notice and list of writings, *see* memoir by H. F. Osborn in Nat. Acad. Sci., 1912 (Biogr. Mem.), **7**, 335–396.

—— [On *Squatina dumerili*] Proc. Acad. Nat. Sci. Philad., 1847, **3**, 247. 1847.1

—— Contributions to helminthology. Proc. Acad. Nat. Sci. Philad., 1851, **5**, 205–210. 1851.1
Records *Distomum longum* and *D. tereticolle* from pike; *Echinorhynchus lateralis* from brook trout, and *E. proteus* from white bass.

—— Descriptions of new species of Entozoa. Proc. Acad. Nat. Sci. Philad., 1851, **5**, 155–156. 1851.2
Echinorhynchus socialis from intestines of *Platessa plana.*

—— On nodular bodies embedded in the tail and fins of fishes, a parasitic worm of the genus Distoma. Proc. Acad. Nat. Sci. Philad., 1853, **6**, 433. 1853.1

—— Description of two ichthyodorulites [*Stenacanthus nitidus* and *Cylindracanthus ornatus*] Amer. Journ. Sci., 1856, 2. ser. **21**, 421–422. — Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 11–12. 1856.1

—— Indications of five species, with two new genera, of extinct fishes. Proc. Acad. Nat. Sci. Philad. 1855 (1856), **7**, 414. 1856.2

—— Indications of twelve species of fossil fishes. Proc. Acad. Nat. Sci. Philad. 1855 (1856), **7**, 395–397. 1856.3

—— Notices of remains of extinct reptiles and fishes discovered by Dr. F. V. Hayden in the Bad Lands of the Judith river, Nebraska territory. Amer. Journ. Sci., 1856, 2. ser. **22**, 118–120. — Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 72–73. 1856.4

Two species of Lepidotus are described.

—— Notices on some tapeworms. Proc. Acad. Nat. Sci. Philad. 1855 (1856), **7**, 43; 443–444. 1856.5

Records *Ligula monogramma* from chub.

—— Notice of some remains of fishes discovered by Dr. John E. Evans. Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 256–257. 1857.1

Clupea humilis, Cladocyclus? occidentalis, Enchodus shumardi.

—— Notices of extinct vertebrata discovered by Dr. F. V. Hayden, during the expedition to the Sioux country under the command of Lieut. G. K. Warren. Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 311–312. 1857.2

Mylognathus priscus.

—— Notices of remains of extinct vertebrated animals discovered by Professor E. Emmons. Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 255–256. — Amer. Journ. Sci., 2. ser. **23**, 271–272. 1857.3

Ischyrhiza antiqua.

—— Notices of remains of extinct vertebrated animals of New Jersey, collected by Prof. Cook of the State Geological Survey, under the direction of Dr. W. Kitchell. Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 220–221. 1857.4

Ischyrhiza mira, sp. nov.

—— Remarks on certain extinct species of fishes. Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 301–302. 1857.5

Edestus, Cylindracanthus, Saurocephalus.

—— A synopsis of Entozoa and some of their ectocogeners observed by the author. Proc. Acad. Nat. Sci. Philad. 1856 (1857), **8**, 42–58. 1857.6

172 species are enumerated, 18 of which are parasitic on fishes and 6 are new.

—— Descriptions of some remains of fishes from the Carboniferous and Devonian formations of the United States. Journ. Acad. Nat. Sci. Philad., 1858, 2. ser. **3**, 159–165. 3 pls. Abstract in Amer. Journ. Sci., 2. ser. **22**, 453. 1858.1

—— List of extinct vertebrata, the remains of which have been discovered in the region of the Missouri river, with remarks on their geological age. Proc. Acad. Nat. Sci. Philad. 1857 (1858), 89–91. 1858.2

Clupea, Cladocyclus, Enchodus, Saurocephalus, Lepidotus, Mylognathus.

—— Notice of remains of extinct vertebrata from the valley of the Niobrara river, collected during the exploring expedition of 1857 in Nebraska. Proc. Acad. Nat. Sci. Philad., 1858, 20–29. 1858.3

—— Notices of some remains of extinct fishes [*Hadrodus priscus, Phasganodus dirus, Turseodus acutus, Pycnodus robustus*] Proc. Acad. Nat. Sci. Philad. 1857 (1858), 167–168. 1858.4

—— A minnow caught in the Schuylkill, having disease of the scales of the upper part of the head and about the orbit. Proc. Acad. Nat. Sci. Philad. 1858 (1859), Biol. Dept. 12. 1859.1

—— Remarks on remains of some extinct vertebrata in territory of Nebraska. Proc. Amer. Phil. Soc., 1859, **7**, 10–11. 1859.2

Sphyrænoid teeth.

—— Remarks on the growth of *Achlya prolifera* upon fish. Proc. Acad. Nat. Sci. Philad. 1858 (1859), Biol. Dept. 13. 1859.3

—— Description of vertebrate fossils (In Holmes, F. S. Post-Pleiocene fossils of South Carolina, p. 99–122. 14 pls. Charleston, 1860) 1860.1

Fishes, p. 119–122. Xiphias, Pastinaca, Ischyrhiza, Trichiurus and sharks' teeth.

Leidy, *J.*

—— Descriptions of the remains of fishes from the Carboniferous limestone of Illinois and Missouri. Trans. Amer. Phil. Soc., 1860, n. s. **11**, 87–90. pl. 1860.2

Cochliodus, Helodus, Chomatodus, Palæobatis, Ctenoptychius.

—— Extinct vertebrata from the Judith river and great lignite formations of Nebraska. Trans. Amer. Phil. Soc., 1860, n. s. **11**, 149–154. 4 pls. 1860.3

Fishes, p. 149; 153–154. Lepidotus, Mylognathus.

—— [Remarks on fossil vertebrates found near Phœnixville, Pa., including bones and teeth of ganoid fishes] Proc. Acad. Nat. Sci. Philad. 1859 (1860), 110. 1860.4

—— Remarks on Saurocephalus and its allies. Trans. Amer. Phil. Soc., 1860, n. s. **11**, 91–95. pl. 1860.5

—— [Remarks upon remains of fishes found in the ferruginous deposit at Bethany, Va., and also from the Green Sand, of Monmouth county, N. J.] Proc. Acad. Nat. Sci. Philad. 1859 (1860), 110. 1860.6

No descriptions are given and no species are named.

—— Some remains of cartilaginous fishes discovered by Dr. F. V. Hayden and F. B. Meek . . . in the Carboniferous formations of Kansas. Proc. Acad. Nat. Sci. Philad. 1859 (1860), 3. 1860.7

Xystracanthus, Cladodus, Petalodus.

—— Remarks on the food of shad. Proc. Acad. Nat. Sci. Philad. 1861 (1862), 2. 1862.1

—— On a fœtal dog-fish (*Acanthias americanus*) from the isles of Shoals, N. H. Proc. Acad. Nat. Sci. Philad., 1865, 175. 1865.1

—— Notice of American species of Ptychodus. Proc. Acad. Nat. Sci. Philad., 1868, 205–208. 1868.1

—— Remarks on Conosaurus [Pachyrhizodus] of Gibbes. Proc. Acad. Nat. Sci. Philad., 1868, 200–202. 1868.2

—— Remarks on shad brought to our markets during the late autumnal months, which were caught in salt water, and their food. Proc. Acad. Nat. Sci. Philad., 1868, 228. 1868.3

—— Notice of some worms, *Dibothrium cordiceps*, Hirudo, Gordius. Proc. Acad. Nat. Sci. Philad., 1871, 305–307. 1871.1

Describes specimens of trout from Yellowstone river infested with tapeworm *Dibothrium cordiceps*.

—— Report on the vertebrate fossils of the Tertiary formations of the west. 2. [4] Ann. Rept. U. S. Geol. Surv. Wyoming & Territ. 1870 (1871), 340–370. 1871.2

Fishes, p. 368–370. Cyprinidæ, Clupea, Asineops, Oncobatis, etc.

—— On some remains of Cretaceous fishes [*Otodus divaricatus*, *Oxyrhina extenta*, *Acrodus humilis* and *Pycnodus faba*] Proc. Acad. Nat. Sci. Philad., 1872, 162–163. 1872.1

—— On the fossil vertebrates of the early Tertiary formation of Wyoming. 5. Ann. Rept. U. S. Geol. Surv. Montana & Territ. 1871 (1872), 353–372. 1872.2

Fishes, p. 371–372. Clupea, Osteoglossum, Asineops, Erismatopterus, Lepidosteus, Amia.

—— Remarks on fossil shark teeth. Proc. Acad. Nat. Sci. Philad., 1872, 166. 1872.3

—— Contributions to the extinct vertebrate fauna of the western territories. 1. Ann. Rept. U. S. Geol. Surv. Terr. 1867 (1873), 1–358. 37 pls. 1873.1

Fishes, p. 184–196; 261–264; 288–313. Sharks' teeth, chimæroids, ganoids and teleosts from the Tertiary and Cretaceous; also Carboniferous shark remains.

—— Notice of fossil vertebrates from the Miocene of Virginia. Proc. Nat. Acad. Sci. Philad., 1873, 15. — Amer. Journ. Sci., 3. ser. **5**, 311–312. 1873.2

Selachian remains, Tautoga, Acipenser.

—— Notice of remains of fishes in the Bridger Tertiary formations of Wyoming. Proc. Acad. Nat. Sci. Philad., 1873, 97–99. 1873.3

Amia, Lepidosteus.

—— On Lingula in a fish of the Susquehanna. Proc. Acad. Nat. Sci. Philad., 1873, 415–416. 1873.4

—— Description of vertebrate remains, chiefly from the phosphate beds of South Carolina. Journ. Acad. Nat. Sci. Philad., 1874–81, 2. ser. **8**, 209–261. 5 pls. 1874.1

Fossil sharks' teeth are described.

—— On psorosperms in a mallard duck. Proc. Acad. Nat. Sci. Philad., 1875, 126–127. 1875.1

Infection may have come from infected fish.

—— On Petalodus. Proc. Acad. Nat. Sci. Philad., 1876, 9. 1876.1

—— Remarks on fossils from the Ashley phosphate beds. Proc. Acad.

Nat. Sci. Philad., 1876, 80–81. — Amer. Journ. Sci., 3. ser. **12**, 222–223. — Amer. Naturalist, 1876, **10**, 570–572. 1876.2

Cycloid fish scales and hypural fans.

—— Remarks on vertebrate fossils from the phosphate beds of South Carolina. Proc. Acad. Nat. Sci. Philad., 1876, 114–115. 1876.3

Carcharodon teeth.

—— On parasitic worms in the shad (*Filaria capsularia*) Proc. Acad. Nat. Sci. Philad., 1878, 171. 1878.1

Description of cysts of *Agamonema capsularia* from shad and herring; often very numerous. Does not affect fish or render it unwholesome as food.

—— Rhizopods, the food of some young fishes. Amer. Journ. Sci., 1881, 3. ser. **22**, 82. — Ann. Mag. Nat. Hist., 5. ser. **8**, 240. — Proc. Acad. Nat. Sci. Philad., 1881, 9–10. 1881.1

—— Filaria of the black bass. Proc. Acad. Nat. Sci. Philad., 1883, 69. 1883.1

—— Bothriocephalus in trout. Proc. Acad. Nat. Sci. Philad., 1885, 122–123. 1885.1

Record of specimens taken from trout. Brief description of form named *Bothriocephalus cestus.*

—— Notices of nematoid worms. Proc. Acad. Nat. Sci. Philad., 1886, 308–313. 1886.1

Includes description of *Filaria stigmatura* from lake trout.

—— On Amia and its probable Tænia. Proc. Acad. Nat. Sci. Philad., 1886, 62. 1886.2

Note on the occurrence in the bowfin of a species probably *Tænia filicollis.*

—— Notice of some parasitic worms. Proc. Acad. Nat. Sci. Philad., 1887, 20–24. 1887.1

Includes description of *Tænia ambloplitis* from rock bass; *T. micropteri* from black bass; *Distomum hispidum* from sturgeon.

—— Parasites of the pickerel. Proc. Acad. Nat. Sci. Philad., 1888, 169. 1888.1

Describes *Tænia leptosoma* from pike; may be identical with *T. amblopitis* from rock bass.

—— Parasites of the rock fish. Proc. Acad. Nat. Sci. Philad., 1888, 166–168. 1888.2

Describes *Distomum galactosomum,* a new species, and *Agamonema capsularia.*

—— Parasites of the shad and herring. Jour. Compar. Medic. & Surg., 1888, **9**, 211–217. 1888.3

Migratory fish. Shad from Delaware river harbored *Agamonema capsularia, Ascaris adunca,* and *Gymnoscolex picta.* Herring harbor the first and third only.

—— Parasites of the striped bass. Proc. Acad. Nat. Sci. Philad., 1888, 124–125. 1888.4

Records *Ergasilus labracis* from gills of striped bass and *Echinorhynchus proteus* from intestine. Migratory fish.

—— Description of vertebrate remains from Peace creek, Florida. Trans. Wagner Free Instit. Sci. Philad., 1889, **2**, 19–31. 5 pls. 1889.1

Fishes, p. 31. Ephippus, Diodon, Myliobatis, Oxyrhina, Galeocerdo.

—— Notices of Entozoa. Journ. Compar. Medic. & Surg., 1890, 410–418. 1890.1

Describes *Echinorhynchus paucihamatus* from black bass; *Tænia nematosoma* from pike.

Leiper, *R. T.* Some generic names that have been omitted from recent zoological indices. Zoologist, 1908, 390. 1908.1

Leith, *J. M.* Salmon legislation in Scotland at present applicable to the salmon fisheries in Scotland, and the best means of improving it (In Fish and fisheries, edited by David Herbert, p. 130–154. Edinburgh & London, 1883) 1883.1

Le Juge, *E.* Note sur le *Synanceia brachia* (Cuvier) Trans. Roy. Soc. Mauritius, 1871, **5**, 19–24. 1871.1

—— Note sur le *Torpedo marmorata* de l'île Maurice (vulgairement trembleur) Trans. Roy. Soc. Mauritius, 1876, n. s. **8**, 26–33. 1876.1

Lelièvre, *August,* & **Retterer,** *Eduard.* *See* **Retterer** & **Lelièvre.**

Lemaout, *Emmanuel* [1800–1877] Oiseaux, reptiles, poissons, insectes et crustacés (In Bernard, Pierre. Le Jardin des Plantes. Paris, 1843. 664 p. col. pls. 8°) 1843.1

Lemarié, *Eugène.* Poissons des départements de la Charente, de la Charente-inférieure, des Deux-Sèvres, de la Vendée et de la Vienne. Niort, 1866. 8°. 1866.1

Lemmermann, *E.* Resultate einer biologischen Untersuchung von Forellenteichen. Forsch. Beob. Biol. Stat. Plön., 1897, **5**, 67–112. 3 figs. 1897.1

Lemmon, *J.* Deal-fish or vaagmaer on the Banff coast. Ann. Scottish Nat. Hist., 1905, 184. 1905.1

Lemoigne, *A.,* & **Lussana,** *F.* *See* **Lussana** & **Lemoigne.**

Lemoine, *Victor* [— 1897] Recherches sur les ossements fossiles des terrains tertiaires inférieurs des environs de Reims. Ann. Sci. Nat. (*Zool.*), 1878, 6. sér. **8**, 1–56. 8 pls. 1878.1

Remains of sparoids, siluroids, pycnodonts, Squalidæ and Myliobatidæ are mentioned.

—— Communication sur les ossements fossiles des terrains tertiaires inférieurs des environs de Reims. C. R. Assoc. Franç. Avanc. Sci., 8. sess., 1879, 585–595. 1879.1

Teleosts, ganoids and chondropterygians.

—— Etude sur les couches de l'Eocène inférieur rémois qui contiennent la faune cernaysienne, et sur deux types nouveaux de cette faune. Bull. Soc. Géol. France, 1896, 3. sér. **24**, 333–344. pl. 1896.1

Sparidæ, Enchodus, Pappichthys, Edaphodon, Myliobatis, Lamnidæ.

Lemoine-Moreau, *E.* Des poissons électriques. Des causes, et éléments de production de l'électricité de la torpille. Paris, 1868. 12 p. 8°. 1868.1

Lemoussu, —— Des avantages qui doivent résulter pour la France de l'exploitation des produits de la mer. Bull. Soc. Acclim. Paris, 1860, **7**, 332–340. 1860.1

Lendenfeld, *Robert von* [1858 —] Ueber *Lepidopus caudatus* Günth. Zool. Anz., 1883, **6**, 559–560. — New Zealand Journ. Sci., **2**, 108–109. 1883.1

—— Note on the eyes of deep-sea fishes. Proc. Linn. Soc. New South Wales, 1885, **9**, pt. 3, 699–700. 1885.1

—— Die Leuchtorgane der Fische. Biol. Centralbl., 1887, **7**, 609–621. 1887.1

—— Report on the structure of the phosphorescent organs of fishes (In Günther, A. Report on the deep-sea fishes. In Report on the scientific results of the voyage of H. M. S. "Challenger" during the years 1873–76, vol. xxii (Append. B), 277–329. 5 pls. London, etc., 1887) 1887.2

—— Bemerkung über die Leuchtorgane der Fische. Biol. Centralbl., 1891, **10**, 215–216. 1891.1

—— The radiating organs of the deep-sea fishes; with an appendix on the structure of the bud-like organs of *Malthopsis spinulosa* Garman, by Emanuel Trojan. Mem. Mus. Comp. Zool., Harv. Coll., 1905, **30**, 169–212. 11 pls. 1905.1

Leney, *Frank.* A list of the type, figured and described fossils in the Norwich Castle Museum. Geol. Mag., 1902, 4. dec. **9**, 166–171; 220–231. 1902.1

Lengerke, —— *von.* Beobachtungen über unseren Flusshecht (*Esox lucius*) Hannov. Land.- Forstw. Vereinsbl., 1874, 13. Jahrg., 126. 1874.1

—— Gehen Aale aufs Land? Deutsch. Landsw. Presse, 1876, 3 Jahrg., 610. 1876.1

Lengerken, *Hans von.* Die Kolbenzellen von Anguilla und Petromyzon. Sitzber. Ges. Naturf. Freunde Berlin, 1913, 391–441. 4 pls. & 8 figs. 1913.1

Lengyel, *István.* Fészekrakó halak [Nest-building fishes] Természet. Közl., Budapest, 1872, **4**, 426–432. 1872.1

Lenhart, *C. H.*, & **Marine,** *David. See* **Marine** & **Lenhart.**

Lenhossék, *Michael von.* Beobachtungen an den Spinalganglien und dem Rückenmark von Pristiurusembryonen. Anat. Anz., 1892, **7**, 519–539. figs. 1892.1

—— Die Nervenendigungen in den Endknospen der Mundschleimhaut der Fische. Vorläufige Mittheilung. Festschr. Nat. Ges. Basel, 1892, 92–100. 1892.2

—— Beiträge zur Histologie des Nervensystems und der Sinnesorgane. Wiesbaden, 1894. 1894.1

—— Zur Kenntniss des Rückenmarks der Rochen. Wiesbaden, 1894. 1894.2

—— Der feinere Bau des Nervensystems im Lichte neuester Forschungen. 2. ed. Berlin, 1895. 1895.1

—— Ueber die Entwickelung der peripherischen Nervenfasern [Text in Hungarian] Math. Természet. Értesítő, Budapest, 1905, **23**, 190–229. 1905.1

Lennox, *T. H.* The fossil sharks of the Devonian. Proc. Canad. Instit., 1886, 3. ser. **3**, 120–121. 1886.1

Makes statement of the finding of a fossil fin-spine, *Machæracanthus sulcatus*, at St. Marys, Ontario.

Lennurt, *J. T.* Catch of spawning shad in the Potomac above Georgetown. Bull. U. S Fish Comm. 1883, **3**, 440. 1883.1

Lenz, *Eduard.* Hören die Fische? [Cyprinus] Wochenschr. Aquar.-Terrar. Kunde, 1906, 4. Jahrg., 158–160. 1906.1

Lenz, *H.* Die Fische der Travemünder Bucht. Circul. Deutsch. Fischerei Ver. 1879 (1880), no. 2, 51–57. 1880.1

—— Ein neuer Fisch, *Salarias reuteri* [*Spirostreptus reuteri*] und zwei neue Myriapoden von Nossi-Be. Zool. Anz., 1881, **4**, 506–508. 1881.1

Lenz, *H.*, & **Jatzow,** *R. See* **Jatzow & Lenz.**

Lenz, *Harald Othmar* [1799–1870] Gemeinnützige Naturgeschichte, zweite verbesserte Ausgabe. 4 vols. Gotha, 1838–43. pls. 8°. 1838.1

Bd. iii, Fische.

—— The same. 3. ed. 4 vols. Gotha, 1851. pls. 8°. 1851.1

—— The same. 5. ed., bearbeitet von O. Burbach. 4 vols. Gotha, 1875–1884. 8°. 1878.1

Bd. iii, Fische, 1878.

Leonard, *J. A.* Report on the Edinburgh fisheries exhibition. Bull. U. S. Fish Comm. 1882 (1883), **2**, 80–82. 1883.1

Leonel, —— Jagt- och fiskeriförhållandena i de nordliga elfdalarna. Sporten, 1889, 3. ser **1**. 1889.1

Leonhardt, *E. E.* Die Abrichtung des Kormorans und seine Benutzung zum Fischfange bei den Chinesen. Deutsch. Fischerei Corresp., June & July, 1901. 1901.1

—— Die Wertschätzung der Fische als Nahrungsmittel bei den Alten. Deutsch. Fischerei Corresp., April, 1901, 6–7. 1901.2

—— Zur Geschichte der Fischzucht. Deutsch. Fischerei Corresp., 1901–03. 1901.3

i. Chinesische Fischzucht. November, 1901, p. 1–4.
ii. Roms fischzüchterische Bestrebungen. December, 1901, p. 1–2.
iii. Die Fischzucht des Mittelalters. January, 1902, p. 1–2.
iv. Comacchio. Erfindung der künstlichen Fischzucht. February, 1902, p. 1–3.
v. Erfindung der künstlichen Fischzucht. Fortsetzung und Schluss. March & April, 1902.
vi. Fischzüchterisches aus dem 18. Jahrhundert. May & June, 1902.
vii. Die Fischzucht in der ersten Hälfte des 19. Jahrhundert. July–December, 1902.
viii. Die künstliche Fischzucht in der zweiten Hälfte des 19. Jahrhunderts. January, 1903.
ix. Die Zuchtergebnisse bei unseren wichtigsten Kulturfischen. February, March & April, 1903.

—— Fischzucht auf den Reisfeldern in China. Fischerei Zeitg., 1902, **5**, 758–759. 1902.1

—— Der gemeine Flussaal (*Anguilla vulgaris* Flem.) Ein Beitrag zur Kenntnis seiner Naturgeschichte sowie seiner wirtschaftlichen Bedeutung. Stuttgart, 1902. 56 p. 8°. 1902.2

—— Die Bastarde der deutschen karpfenähnlichen Fische. Fischerei Zeitg., 1903, 6. Jahrg., 721–725; 741–743; 760–762; 775–776; 793–794; 803–804. *Ibid.*, 1904, **7**, 21–28, 36–41. Also separate; Neudamm, 1904. 58 p. 1903.1

—— Eingewöhnungsversuche mit fremden Fischen. Deutsch. Fischerei Corresp., May, 1903, 1–4. 1903.2

—— Einiges über die Biologie der deutschen Cypriniden. Nerthus, Altona, 1903, 5. Jahrg., 465–466; 480–481; 500–501. 1903.3

—— Die Fische des Königsreichs Sachsen. Deutsch. Fischerei Corresp., September, 1903. 1903.4

—— Der Fischfang des Urmenschen. I. Aeltere Steinzeit. II. Jüngere Steinzeit. Deutsch. Fischerei Corresp., October, 1903. *Ibid.*, 1904, 37–38. 1903.5

—— Die Fischwanderungen. Nerthus, Altona, 1903, 5. Jahrg., 654–657; 671–675; 684–687. 1903.6

—— Das Flussneunauge, *Petromyzon fluviatilis* L. Fischerei Zeitg., 1903, **6**, 225–230; 241–246. 1903.7

—— Die Notlage des Fischereigewerbes und Vorschläge zur Hebung derselben. Deutsch. Fischerei Corresp., December, 1903. *Ibid.*, January & February, 1904. 1903.8

—— Rotfeder oder Plötze. Deutsch. Fischerei Corresp., February, 1903, 2–3. 1903.9

—— Die Schlundzähne der deutschen karpfenähnlichen Fische. Nerthus, Altona, 1903, 5. Jahrg., 132–134; 156–158; 173–175. 1903.10

—— Die Schwimmblase und Geschlechtsprodukte der karpfenähnlichen Fische. Deutsch. Fischerei Corresp., August, 1903. 1903.11

—— Die Art der Fortbewegung der Fische. Deutsch. Fischerei Corresp., 1904, 62. 1904.1

—— Aussatz durch Ernährung mit Fischfleisch. Deutsch. Fischerei Corresp., 1904, 40. 1904.2

Leonhardt, *E. E.*

—— Die Bedeutung der Wuhnen in den Winterungen. Deutsch. Fischerei Corresp., 1904, **8**, 121–122. 1904.3

—— Bestimmungstabelle der deutschen karpfenähnlichen Fische. Deutsch. Fischerei Corresp., 1904, 76–77. 1904.4

—— Chinesische Fischzucht. Fischerei Zeitg., 1904, 7. Jahrg., 166–168; 184–186. 1904.5

—— Die chinesische Flussfischzucht. Deutsch. Fischerei Corresp., 1904, 25–27. 1904.6

—— Chinesische Teichwirtschaft. Deutsch. Fischerei Corresp., 1904, 49–51. 1904.7

—— Deutschlands auswärtiger Handel in Süsswasserfischen. Deutsch. Fischerei Corresp., 1904, **8**, 99–101. 1904.8

—— Die Färbung der Fische. Deutsch. Fischerei Corresp., 1904, 18–20. 1904.9

—— Giftige Fische. Deutsch. Fischerei Corresp., 1904, **8**, 122–123. 1904.10

—— Höhere Pflanzenwelt in der Teichwirtschaft. Deutsch. Fischerei Corresp., 1904, 61. 1904.11

—— *Jenynsia lineata* (Jenyns) Natur u. Haus, 1904, 13. Jahrg., 310–311. 1904.12

—— Kleinteichwirtschaft. Deutsch. Fischerei Corresp., 1904, **8**, 133–134. 1904.13

—— Die Konservierung toter Fische. Deutsch. Fischerei Corresp., 1904, **8**, 97–98. 1904.14

—— Ein neuer Cypriniden-Bastard (*Alburnus lucidus* Heck. mit *Squalius leuciscus* L.) Natur u. Haus, 1904, **12**, 343–345. 2 figs. 1904.15

—— Die Regenbogenforelle. Deutsch. Fischerei Corresp., 1904, 85–87. 1904.16

—— Staatliche Fürsorge zur Pflege der Fischerei in China. Deutsch. Fischerei Corresp., 1904, 73–74. 1904.17

—— Streifzüge in das Gebiet der Etymologie der Fischnamen. Fischerei Zeitg., 1904, **7**, 521–524; 539–542. 1904.18

—— *Tetrodon cutcutia* (Bibr.) ein interessanter neuer Zierfisch. Natur u. Haus, 1904, **12**, 225–226. 1904.19

—— Ueber Fischwasser-Verunreinigungen. Deutsch. Fischerei Corresp., 1904, 74–76. 1904.20

—— Das Uferbetretungsrecht. Deutsch. Fischerei Corresp., 1904, 95–96. 1904.21

—— Der Anbiss der Plötze. Deutsch. Fischerei Corresp., 1905, **9**, 9–10. 1905.1

—— Die Bedeutung der Schwimmblase für den Fisch. Deutsch. Fischerei Corresp., 1905, **9**, 102–103. 1905.2

—— Die Besetzung der Karpfenteiche vor 300 Jahren. Deutsch. Fischerei Corresp., 1905, **9**, 122–124. 1905.3

—— Bestimmungstabelle für die bisher eingeführten Zahnkärpflinge. Deutsch. Fischerei Corresp., 1905, **9**, 80–83. 1905.4

—— Das Brüten des Kampffisches (*Betta pugnax*) Deutsch. Fischerei Corresp., 1905, **9**, 58–59. 1905.5

—— Die Brutfürsorge bei den Fischen. Deutsch. Fischerei Corresp., 1905, **9**. 97–100. 1905.6

—— Einiges über das Gesetz der Anpassung in der Fischzucht. Deutsch. Fischerei Corresp., 1905, **9**, 4–6. 1905.7

—— Die Farbe der Forellen. Deutsch. Fischerei Corresp., 1905, **9**, 73–74. 1905.8

—— Fischhandel und Handelsverträge. Deutsch. Fischerei Corresp., 1905, **9**, 27–28. 1905.9

—— *Fundulus diaphanus* var. *menona*. Wochenschr. Aquar.-Terrar. Kunde, 1905, 2. Jahrg., 321–323. 1905.10

—— Die Gyrodactylus-Krankheit. Deutsch. Fischerei Corresp., 1905, **9**, 22–23. 1905.11

—— *Haplochilus schœlleri* Boul. (1904) und die Eibefestigung von *H. latipes*. Natur u. Haus, 1905, 14. Jahrg., 28–29. 1905.12

—— Der Hecht. Ein geschichtlicher Abriss. Deutsch. Fischerei Corresp., 1905, **9**, 108–113. 1905.13

—— Die heimischen Süsswasserfische im Aquarium. Natur u. Haus, 1905, 14. Jahrg., 65–69; 81–85. 3 figs. 1905.14

—— Die Kreuzung der Zierfische. Deutsch. Fischerei Corresp., 1905, **9**, 70–71. 1905.15

—— Der Lachs; Versuch einer Biologie unseres wertvollsten Salmoniden. Fischerei Zeitg., 1905, **8**, 217–223; 233–238; 252–258; 269–273. 1905.16

—— *Lucioperca volgensis.* Deutsch. Fischerei Corresp., 1905, **9**, 74–75. 1905.17

—— *Mastacembelus pancalus* (Buch.) Natur u. Haus, 1905, 14 Jahrg., 4–5. fig. 1905.18

—— *Pœcilia unimaculata* Val. Natur u. Haus, 1905, 13. Jahrg., 281–283. 1905.19

—— Die Präparation von Fischen. Nerthus, Altona, 1905, **7**, 105–106. 1905.20

—— Schleierschwanz × *Barbus conchonius* und einiges über Befruchtungsvorgänge. Natur u. Haus, 1905, 13. Jahrg., 324–327. 1905.21

—— Das Schmarotzertum der Uniodenlarven auf den Fischen. Deutsch. Fischerei Corresp., 1905, **9**, 61–62. 1905.22

—— Der Schwarzbarsch (*Micropterus dolomieui*) Deutsch. Fischerei Corresp., 1905, **9**, 87–89. 1905.23

—— Der Zander (Luctoperca) Deutsch. Fischerei Corresp., 1905, **9**, 25–27; 38–41; 51–53. 1905.24

—— Der Zwergwels (*Amiurus nebulosus*) Deutsch. Fischerei Corresp., 1905, **9**, 14–16. 1905.25

—— *Acara bimaculata* (L.) Natur u. Haus, 1906, 14. Jahrg., 342–343. fig. 1906.1

—— *Badis badis* (Ham. & Buch) Natur u. Haus, 1906, 14. Jahrg., 266–267. fig. 1906.2

—— *Danio rerio* (Ham. & Buch) Natur u. Haus, 1906, 14. Jahrg., 121–122. fig. 1906.3

—— Einiges aus dem Leben des Flussbarsches. Deutsch. Fischerei Corresp., 1906, **10**, 10–12. 1906.4

—— Die Entwickelung der Fischerei und ihrer Geräte. Zeitschr. Fischerei, 1906, **13**, 83–171. 19 figs. 1906.5

—— Die Gattung Callichthys Cuvier und ihre bisher in die Aquarien eingeführten Vertreter. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 259–261; 271–273; 283–284. 1906.6

—— Der Goldfisch in Japan. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 439–441. 1906.7

—— Der Karpfen; Geschichte, Naturgeschichte und wirtschaftliche Bedeutung unseres wichtigsten Zuchtfisches. Neudamm, 1906. 104 p. map. 8°. 1906.8

—— Der Karpfen in Nordamerika. Fischerei Zeitg., 1906, **9**, 326–328; 342–343. 1906.9

—— *Macrones tengara* (Ham. & Buch) Natur u. Haus, 1906, 14. Jahrg., 231–232. fig. 1906.10

—— *Pœcilia reticulata* Peters. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 71–74. 1906.11

—— *Pseudocorynopoma doriæ* (Perugia) Natur u. Haus, 1906, 15. Jahrg., 46–48. fig. 1906.12

—— Ueber die Mopskopfbildung bei *Abramis vimba* L. Zool. Anz., 1906, **31**, 53–60. 2 figs. 1906.13

—— Die Volksnamen unserer heimischen karpfenähnlichen Fische. Deutsch. Fischerei Corresp., 1906, **10**, 4–7. 1906.14

—— *Zygonectes nottii* Ag. Natur u. Haus, 1906, 14. Jahrg., 142–143. fig. 1906.15

—— Zernecke, Leitfaden für Aquarien- und Terrarienfreunde. 3. ed. Dresden, 1907. 455 p. 2 pls. & 185 figs. 1907.1

—— Die beiden Süsswasserstichlinge. Deutsch. Fischerei Corresp., 1907, **11**, August u. September. 1907.2

—— Fliegende Fische. Natur u. Haus, 1907, 16. Jahrg., 152–154. 1907.3

—— *Glaridodon latidens* Garm. Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 270–271. 1907.4

—— Inzucht und Vererbung. Fischerei Zeitg., 1907, **10**, 649–652. 1907.5

—— Die Plötze (*Leuciscus rutilus* L.) Fischerei Zeitg., 1907, **10**, 1–6; 22–24. 1907.6

—— *Tetragonopterus rubropictus* Berg. Natur u. Haus, 1907, 15. Jahrg., 115–117. fig. 1907.7

—— Versuche über die Aufzucht des Aales in den Lagunen von Comacchio. Fischerei Zeitg., 1907, **10**, 805–810. 1907.8

Leonhardt, *E. E.*

—— Der Werdegang eines Speisekarpfens. Natur & Haus, 1907, 16. Jahrg., 24–27. fig. 1907.9

—— Die Fische in den tierkundlichen Sammlungen. Deutsch. Fischerei Corresp., 1908, **12**, June u. July. 1908.1

—— *Platypœcilus maculatus.* Wochenschr. Aquar.-Terrar. Kunde, 1908, 6. Jahrg., 27. 1908.2

—— Das Sammeln, Erhalten und Aufstellen der Tiere. Neudamm, 1908. xiv, 282 p. 80 figs. 1908.3

—— Das Süsswasser-Aquarium. Stuttgart, 1908. viii, 88 p. 4 pls. 8 figs. 1908.4

—— Die sinnlichen Wahrnehmungen der Fische. Natur u. Haus, 1909, 17. Jahrg., 252–255; 261–266; 283–287. 1909.1

—— Ontogenetisches und Anatomisches vom Goldfisch. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 528–531. 3 figs. 1912.1

—— Der Fisch. Sein Körper und sein Leben. Stuttgart, 1913. 2 pls. & 28 figs. 165 p. 1913.1

Leonhardt, *G.* Information concerning the blue carp. Bull. U. S. Fish Comm. 1882 (1883), **2**, 15. 1883.1

L'Eost, (*Commandant*) —— Rapport au sujet d'un animal inconnu, rencontré en baie d'Along par la "Décidée." Bull. Soc. Zool. France, 1904, **29**, 115–117. — C. R. Acad. Sci. Paris, 1904, **138**, 1720–1721. 1904.1

An unidentified marine creature, possibly Regalecus.

Léotaud, *Antoine* [1814–1867] Fishes of Trinidad (In De Verteuil, L. A. A. Trinidad, its geography, etc. 1858) 1858.1

Sixty-seven genera and 200 species are enumerated without descriptions. Some of the species are identified by Dr. T. N. Gill in his Synopsis of the freshwater fishes of Trinidad, published in Ann. Lyc. Nat. Hist. N. Y., 1858, **6**, 365–369.

Lepekhin, *Ivan Ivanovich* [1737?–1802] Descriptio piscis [Cyprini sp.] Novi Comment. Acad. Petropol., 1771, **15**, 491–493. 1771.1

—— Descriptio *Cyclopteri lineati.* Novi Comment. Acad. Petropol., 1773, **18**, 322–325. figs. 1773.1

—— Descriptio piscis, e Gadorum genere, Russis Saida dicti [*Gadus saida*] Novi Comment. Acad. Petropol., 1773, **18**, 512–521. pl. 1773.2

—— Herrn J. Lepechin . . . Tagebuch der Reise durch verschiedene Provinzen des Russisches Reiches in den Jahren 1768 und 1769. Aus dem Russischen übersetzt von M. C. H. Hase. 3 Theile. Altenburg, 1774–83. illust. 4°. 1774.1

The original edition, in Russian, was published at St. Petersburg 1771–80. It contains descriptions of various fishes.

—— Varietas Acipenseris stellati oppido rara descripta. Nova Acta Acad. Petropol. (*Hist.*), 1795, **9**, 35–38. 1795.1

Lépinay, *S.* Psychologie des poissons. Quelques anecdotes. Bull. Mus. Hist. Nat. Paris, 1907, 476–479. 1907.1

Le Play, *Albert.* La carpe, nouveaux procédés d'élevage et d'aménagement des étangs, par le système Dubisch. Paris, 1889. 18°. 1889.1

Lepori, *C.* Osservationes sull' uovo della *Lebias calaritana.* Roma, 1881. pl. 4°. 1881.1

—— Il maschio dell' Anguilla. Atti Soc. Ital., Sci. Nat., Milano, 1883, **26**, 327–336. 1883.1

Lepsius, *Carl Georg Richard* [1851 —] Geologie von Deutschland und den angrenzenden Gebieten. . . . I. Teil: Das westliche und südliche Deutschland. Stuttgart, 1887–92. xiv, 800 p. pl. & 10 figs. 8°. 1887.1

—— The same. II. Teil: Das östliche und nördliche Deutschland. Lief. 1. Leipzig, 1903. 8°. 1903.1

Lereboullet, [*Dominique*] *Auguste* [1804–1865] Embryogénies des vertébrés et des animaux articulés. — Quelques propositions sur l'embryologie des poissons, particulièrement du brochet et de la perche, et sur l'embryogénie de l'écrevisse. C. R. Acad. Sci. Paris, 1854, **38**, 978–980. — L'Institut, 1854, **22**, 203–204. 1854.1

—— Résumé d'un travail d'embryologie comparée sur le développement du brochet, de la perche et de l'écrevisse. Ann. Sci. Nat. (*Zool.*), 1854, 4. sér. **1**, 237–289. *Ibid.*, **2**, 39–80. 1854.2

—— Sur la monstruosité double chez les poissons (extrait d'une lettre adressée à l'occasion d'une communication récente de M. de Quatrefages) C. R. Acad. Sci. Paris, 1855, **40**, 854–856; 916–917; 1028–1030; 1063–1065. — Ann. Mag. Nat. Hist., 2. ser. **16**, 48–51. 1855.1

—— Recherches d'embryologie comparée sur le développement de la truite, du lézard et du limnée. Ann. Sci. Nat. (*Zool.*), 1861, 4. sér. **16**, 113–196. *Ibid.*, 1862, **17**, 89–157. 3 pls. *Ibid.*, 1862, **18**, 87–211. 4 pls. *Ibid.*, **19**, 5–100. *Ibid.*, 1863, **20**, 5–58. 1861.1

—— Recherches sur les monstruosités du brochet observées dans l'œuf et sur leur mode de production. Ann. Sci. Nat. (*Zool.*), 1861, 4. sér. **16**, 359–368. *Ibid.*, 1863, 4. sér. **20**, 177–271. 2 pls. *Ibid.*, 1864, 5. sér. **1**, 113–199; 257–320. — C. R. Acad. Sci. Paris, **53**, 957–959. 1861.2

—— Expériences relatives à la production artificielle des monstruosités dans l'œuf du brochet. C. R. Acad. Sci. Paris, 1862, **54**, 761–762. — Rev. & Mag. Zool., 1862, **14**, 171–173. 1862.1

—— Recherches d'embryologie comparée sur le développement du brochet, de la perche et de l'écrevisse. Mém. Savans Etrang., Paris, 1862, **17**, 447–805. 1862.2

—— Sur les monstruosités du brochet dans l'œuf. Mém. Soc. Sci. Nat. Strasbourg, 1862, **5**, 7. 1862.3

—— De l'origine et du mode de formation des corpuscles sanguins chez des poissons. Ann. Soc. Linn. Angers, 1863, **6**, 80–84. — C. R. Acad. Sci. Paris, 1863, **58**, 561–562. 1863.1

—— Mode de formation des cellules embryonnaires chez les poissons. Cosmos. Les Mondes, 1864, **5**, 185–186. 1864.1

—— Note sur l'origine de la formation des corpuscles sanguins chez les poissons. C. R. Acad. Sci. Paris, 1864, **58**, 561–562. 1864.2

—— Nouvelles recherches sur la formation des premières cellules embryonnaires. Ann. Sci. Nat. (*Zool.*), 1864, 5. sér. **2**, 5–41. pl. — C. R. Acad. Sci. Paris, 1864, **58**, 558–560. 1864.3

—— Remarques sur les observations de M. Leuckart relatives à des organes oculiformes chez quelques poissons. Ann. Sci. Nat. (*Zool.*), 1864, 5 sér. **2**, 355. 1864.4

Leriche, *Maurice.* Faune ichthyologique des sables à Unios et Térédines des environs d'Epernay (Marne) Ann. Soc. Géol. Nord, 1900, **29**, 173–196. 2 pls. & 5 figs. 1900.1

—— Contribution à l'étude des siluridés fossiles. Ann. Soc. Géol. Nord, 1901, **30**, 165–175. pl. & 4 figs. 1901.1

—— Sur deux pycnodontidés des terrains secondaires du Boulonnais. Ann. Soc. Géol. Nord, 1901, **30**, 161–165. pl. & 2 figs. 1901.2

—— Sur quelques éléments nouveaux pour la faune ichthyologique du Montien inférieur du bassin de Paris. Ann. Soc. Géol. Nord, 1901, **30**, 153–161. pl. & 16 figs. 1901.3

—— Les poissons tertiaires de la Belgique, 1902–05. 1902.1

i. Les poissons paléocènes de la Belgique. Mém. Mus. Roy. Hist. Nat. Belgique, 1902, **2**, 1–48. 3 pls. & 8 figs. Abstract in C. R. Acad. Sci. Paris, **136**, 103–105; 527.

ii. Les poissons éocènes de la Belgique. Mém. Mus. Roy. Hist. Nat. Belgique, 1903, **3**, 49–228. 9 pls. & 55 figs.

iii. Les poissons oligocènes de la Belgique. *Ibid.*, 1905, **5**, 229–363. 5 pls. & 91 figs.

—— Révision de la faune ichthyologique des terrains crétacés du nord de la France. Ann. Soc. Géol. Nord, 1902, **31**, 87–155. 3 pls. & figs. 1902.2

—— Note préliminaire sur une faune d'ostracodermes récemment découverte à Pernes (Pas-de-Calais) Ann. Soc. Géol. Nord, 1903, **32**, 190–191. 1903.1

—— Le Pteraspis de Liévin (Pas-de-Calais) [*Pteraspis crouchi* Lankester] Ann. Soc. Géol. Nord, 1903, **32**, 161–175. 2 pls. & 2 figs. 1903.2

—— Rectification de nomenclature. Rev. Crit. Paléozool., 1903, **7**, 129. 1903.3

—— Sur les horizons paléontologiques du Landenien marin du nord de la France. Ann. Soc. Géol. Nord, 1903, **32**, 239–252. fig. 1903.4

—— Note sur les Cottus fossiles, et en particulier sur *Cottus cervicornis* Storms, du Rupélien de la Belgique. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1904, 677–679. pl. 1904.1

—— Contribution à l'étude des poissons fossiles du nord de la France et des régions voisines. Mém. Soc. Géol. Nord, 1906, **5**, 1–430. pls. & figs. Abstract in Ann. Soc. Géol. Nord, **35**, 338–356. 1906.1

Leriche, *M.*

—— Note sur les vertébrés éocènes de la Loire-Inférieure. Bull. Soc. Sci. Nat. Ouest France, 1906, 2. sér. **6**, 179–183. 1906.2

—— Sur la faune ichthyologique de l'aquitanien marin des environs de Montpellier. C. R. Assoc. Franç. Avanc. Sci., 35. sess., 1906, 352–356. pl. & figs. 1906.3

—— Note préliminaire sur les poissons des faluns néogènes de la Bretagne, de l'Anjou et de la Touraine. Ann. Soc. Géol. Nord, 1907, **35**, 290–322. 1907.1

—— Observations sur les poissons du Patagonien récemment signalés par M. Fl. Ameghino. Ann. Soc. Géol. Nord, 1907, **36**, 129–137. 1907.2

—— Revision de la faune ichthyologique des terrains néogènes du bassin du Rhône. C. R. Assoc. Franç. Avanc. Sci., 36. sess., 1907, **35**, pt. 2, 335–352. 2 figs. 1907.3

—— Sur la faune ichthyologique et sur l'âge des faluns de Pourcy (Marne) C. R. Acad. Sci. Paris, 1907, **145**, 442–444. 1907.4

—— Sur l'attribution de *Lacerta* (?) *eocena* Owen de l'Eocène inférieur de Suffolk à un poisson du genre Amia. Ann. Soc. Géol. Nord, 1907, **36**, 167–169. 1907.5

—— Contribution à l'étude des poissons fossiles du nord de la France et des régions voisines. Ann. Soc. Géol. Nord, 1908, **35**, 338–357. 1908.1

—— Note préliminaire sur des poissons nouveaux de l'Oligocène belge. Bull. Soc. Belge Géol. Pal. Hydrol., 1908, **22** (Proc.-Verb.), 378–384. 1908.2

—— Note sur des poissons paléocènes et éocènes des environs de Reims (Marne) Ann. Soc. Géol. Nord, 1908, **37**, 229–265. 4 pls. & fig. 1908.3

—— Observations sur les squales néogènes de la Californie. Ann. Soc. Géol. Nord, 1908, **37**, 302–306. 1908.4

—— Première note sur les poissons carbonifères du nord de la France. Ann. Soc. Géol. Nord, 1908, **37**, 266–281. 2 pls. & 4 figs. 1908.5

—— Sur la présence du genre Amia dans les "Hamstead Beds" (Oligocène inférieur) de l'île de Wight. Bull. Soc. Belge Géol. Pal. Hydrol., 1908, **22** (Proc.-Verb.), 121–123. fig. 1908.6

—— Sur quelques plaques dentaires de Cochliodontidés des terrains carbonifères de la Belgique. Ann. Soc. Géol. Nord, 1908, **37**, 281–286. pl. & figs. 1908.7

—— Sur un appareil fanonculaire de Cetorhinus trouvé à l'état fossile dans le Pliocène d'Anvers. C. R. Acad. Sci. Paris, 1908, **146**, 875–878. 1908.8

—— Les vertébrés du nummulitique de l'Aude (In Doncieux, L. Catalogue descriptif des fossiles nummulitiques de l'Aude et de l'Hérault. Corbières septentrionales) Ann. Univ. Lyon (Sci. Méd.), 1908, n. s. **1**, 3–19. pl. & figs. 1908.9

—— Observations sur les poissons du Tertiaire supérieur de Madagascar. Ann. Soc. Géol. Nord, 1909, **38**, 5–6. 1909.1

—— Première note sur les poissons carbonifères du nord de la France. Ann. Soc. Géol. Nord, 1909, **37**, 266–281. 1909.2

—— Note sur les poissons néogènes de la Catalogne. Bull. Soc. Géol. France, 1910, 4. sér. **10**, 471–474. pl. & fig. 1910.1

—— Note sur les poissons stampiens du bassin de Paris. Ann. Soc. Géol. Nord, 1910, **39**, 324–336. pl. 1910.2

—— [Notice sur ses travaux scientifiques] Lille, 1910. 32 p. 8°. 1910.3

—— Les poissons oligocènes de la Belgique. Mém. Mus. Roy. Hist. Nat. Belgique, 1910, **5**, 233–263. 15 pls. & 92 figs. *Ibid.*, 1911, **6**, 229–363. 5 pls. 1910.4

—— Sur les premiers poissons fossiles rencontrés au Congo belge, dans le système du Lualaba. C. R. Acad. Sci. Paris, 1910, **151**, 840–841. 1910.5

—— Sur quelques poissons du Crétacé du bassin de Paris. Bull. Soc. Géol. France, 1910, 4. sér. **10**, 455–471. pl. & 8 figs. 1910.6

—— Liste des poissons de la glauconie de Lonzée, près Gembloux (province de Namur) (In Mourlon, M. Texte explicatif du levé géologique de la planchette de Gembloux, 1911, no. 130, p. 7) 1911.1

—— Les poissons des couches du Lualaba (Congo belge) Rev. Zool. Africaine, 1911, **1**, 190–197. 2 pls. 1911.2

—— Un pycnodontoïde aberrant du Sénonien du Hainaut. Le genre Acrotemnus L. Agassiz. *Acrotemnus splendens* de Koninck. Bull. Soc. Belge Géol. Pal. Hydrol., 1911, **25** (Proc.-Verb.), 162–168. pl. & 7 figs. 1911.3

—— Deuxième note sur les fossiles de la craie phosphatée de la Picardie. Bull. Soc. Belge Géol. Pal. Hydrol., 1912, **25** (Mém.), 297–310. pl. & 3 figs. 1912.1

Poissons fossiles, p. 298–301.

—— Sur l'age des formations sporadiques comprises entre la porphyrite dioritique et l'argile yprésienne, à Quenast. Bull. Soc. Belge Géol. Pal. Hydrol., 1912, **26** (Proc.-Verb.), 194–197. 1912.2

Otodus, Odontaspis, Elasmodus, Phyllodus.

—— Sur la présence d'un Pteraspis dans le Coblentzien du massif de Dour. Les niveaux à ostracophores de l'Ardenne et des régions limitrophes. Bull. Soc. Belge Géol. Pal. Hydrol., 1912, **26** (Proc.-Verb.), 49–54. pl. 1912.3

Réplique par H. de Dorlodot, p. 64–65. Réponse par Ch. Fraipont, p. 66–69.

—— Les poissons paléocènes de Landana (Congo) Ann. Mus. Congo Géol., 1913, 3. sér. **1**, 67–80. pls. 1913.1

Le Roux, *Marc.* Recherches sur l'histologie et la morphologie du système nerveux des téléostéens. Thèse. Caen, 1887. 4 pls. 8°. 1887.1

Leroy, *J. B.* Lettre sur l'étincelle électrique que donne l'anguille de Surinam [Gymnotus] Journ. Physique (Rozier), 1776, **8**, 331. — Scelti Opusc. Interess., 1776, **26**, 106. 1776.1

Leroy, *J. B.*, **Walsh,** *J.*, & **Seignette,** —— Lettre sur l'électricité de la torpède. Journ. Physique (Rozier), 1774, **4**, 205–206; 210. 1774.1

Le Sauvage, *E.* Expériences sur la circulation du sang dans les poissons. Journ. Méd., 1821, **12**, 184–185. 1821.1

—— Note sur une nouvelle espèce du genre Ammodytes [*A. lanceolatus*] Bull. Sci. Soc. Philom. Paris, 1824, 140–141. — Bull. Sci. Nat. (Férussac), **4**, 261–262. 1824.1

Lesieur, *Charles,* & **Nicolas,** *J. See* **Nicolas & Lesieur.**

Leske, *Nathaniel Gottfried* [1751–1786] Ichthyologiæ Lipsiensis specimen. Lipsiæ, 1774. iv, 82 p. 8°. 1774.1

Lesley, *Joseph Peter* [1819–1903] A dictionary of the fossils of Pennsylvania and neighboring states named in reports and catalogues of the survey. Rept. Geol. Surv. Pennsylvania, 1889. P 4. 2 vols. vol. i, 437 p. vol. ii, 439–914 p. 8°. illust. 1889.1

Leslie, *Charles C.* Scarcity of blackfish — mortality of codfish; from letter to G. Brown Goode. Bull. U. S. Fish Comm. 1882 (1883), **2**, 132. 1883.1

Lesseps, (*Vicomte*) *Ferdinand Marie de* [Une femelle de requin pêché dans le canal de Suez, contenante douze requins vivants de 12 à 20 centimètres de longue] C. R. Acad. Sci. Paris, 1874, **78**, 1471. 1874.1

Lesseux, *C. de.* Pisciculture du Lavaret dans le lac d'Aiguebelette (Savoie) La Nature, 1903, **31**, pt. 1, 234. fig. 1903.1

Lesson, *René Primevère* [1794–1849] *Diacope macclor*, sp. nov. Bull. Sci. Nat. (Férussac), 1827, **12**, 138–139. 1827.1

—— *Hippocampus abdominalis*, sp. nov. Bull. Sci. Nat. (Férussac), 1827, **12**, 127–128. 1827.2

—— Description du nouveau genre Ichthyophis et de plusieurs espèces inédites ou peu connues de poissons [*Iulis quadricolor, I. maculata, I. semi-decorata, I. coris*, etc.], recueillis dans le voyage autour du monde de "La Coquille." Mém. Soc. Hist. Nat. Paris, 1828, **4**, 397–412. Abstracts in Bull. Sci. Nat. (Férussac), **17**, 299–301. — Isis (Oken), **5**, 487–488. 1828.1

Lessona, *Michele* [1823–1894] Gli acquari. Torino, 1864. figs. 8°. 1864.1

Lessona, *Michele,* **Doria,** *Giacomo,* & **Ferrari,** *S. M. See* **Doria, Ferrari & Lessona.**

Lesueur, *Charles Alexandre* [1778–1846] Sur deux poissons non encore décrits du genre Callionyme et de l'ordre des Jugulaires. Bull. Soc. Philom. Paris, 1814, 5–6. pls. 1814.1

Callionymus risso et *C. elegans.*

—— Description de six nouvelles espèces de firoles observées par MM. Péron et Lesueur dans la mer Méditerranée en 1809 et établissement du nouveau genre Firoloïde. Bull. Soc. Philom. Paris, 1817, 157–160. 1817.1

Lesueur, *C. A.*

—— Description of a new species of the genus Cyprinus [*C. maxillingua*] Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 85–86. 1817.2

—— Description of six species of the genus Firola, observed by Messrs. Lesueur and Péron in the Mediterranean sea, in the months of March and April 1809. Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 3–8. pl. 1817.3

—— Description of three new species of the genus Raja. Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 41–45. 3 pls. 1817.4

—— Description of two new species of the genus Gadus [*G. maculosus, G. compressus*] Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 83–85. 1817.5

—— Descriptions of four new species, and two varieties, of the genus Hydrargira. Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 126–134. 1817.6

—— A new genus of fishes, of the order Abdominales, proposed under the name of Catostomus; and the characters of this genus with those of its species indicated. Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 88–96; 102–111. 1817.7

—— A short description of five (supposed) new species of the genus Muræna, discovered by Mr. Le Sueur, in the year 1816. Journ. Acad. Nat. Sci. Philad., 1817, n. s. **1**, 81–83. 1817.8

—— Description of several new species of the genus Esox, of North America [*E. estor, E. reticulatus, E. niger, E. phaleratus*] Journ. Acad. Nat. Sci. Philad., 1818, n. s. **1**, 413–417. 1818.1

—— Description of several new species [Squalus, Salmo] of North American fishes. Journ. Acad. Nat. Sci. Philad., 1818, n. s. **1**, 222–235; 359–368. 1818.2

—— Description of several species of chondropterygious fishes of North America, with their varieties. Trans. Amer. Phil. Soc., 1818, n. s. **1**, 383–394. pl. 1818.3

—— Descriptions of several new species of North American fishes [*Somniosus brevipinna, Squalus obscurus, S. littoralis,* etc.] Journ. Acad. Nat. Sci. Philad., 1818, n. s. **1**, 222–235; 359–368. 3 pls. 1818.4

—— Notice sur quelques poissons découverts dans les lacs du haut Canada, durant l'été de 1816. Mém. Mus. Hist. Nat. Paris, 1819, **5**, 148–161. 2 pls. Abstract in Ann. Gén. Sci. Phys., **4**, 42–45. 1819.1

Describes several species of Pimelodus.

—— Description of a new genus [Mollinesia], and of several new species of freshwater fish, indigenous to the United States. Journ. Acad. Nat. Sci. Philad., 1821, n. s. **2**, 2–8. 3 pls. 1821.1

—— Description of two new species of Exocetus [*E. fasciatus, E. nuttallii*] Journ. Acad. Nat. Sci. Philad., 1821, n. s. **2**, 8–11. pl. Abstract in Bull. Sci. Nat. (Férussac), 63. 1821.2

—— Observations on several genera and species of fish, belonging to the natural family of the Esoces. Journ. Acad. Nat. Sci. Philad., 1821, n. s. **2**, 124–138. 1821.3

—— Description of a Squalus, of a very large size, which was taken on the coast of New Jersey. Journ. Acad. Nat. Sci. Philad., 1822, n. s. **2**, 343–352. pl. 1822.1

—— Description of three new species of the genus Sciæna. Journ. Acad. Nat. Sci. Philad., 1822, n. s. **2**, 251–256. pl. 1822.2

—— Descriptions of the five new species of the genus Cichla of Cuvier. Journ. Acad. Nat. Sci. Philad., 1822, n. s. **2**, 214–221. pl. 1822.3

—— Description of two new species of the genus Batrachoides of Lacépède [*B. variegata, B. diemensis*] Journ. Acad. Nat. Sci. Philad., 1823, n. s. **3**, 395–403. 1823.1

—— Description of several species of the Linnæan genus Raia, of North America. Journ. Acad. Nat. Sci. Philad., 1824, n. s. **4**, 100–121. 2 pls. 1824.1

—— Description of a new fish of the genus Salmo [*S. microps*] Journ. Acad. Nat. Sci. Philad., 1825, n. s. **5**, 48–51. pl. Abstract in Bull. Sci. Nat. (Férussac), **8**, 126. 1825.1

—— Description of a new species [*S. minutus*] of the genus Saurus (Cuvier) Journ. Acad. Nat. Sci. Philad., 1825, n. s. **5**, 118–119. Bull. Sci. Nat. (Férussac), **12**, 137–138. 1825.2

—— Description of two new species of the Linnæan genus Blennius [*B. herminier, B. hentzi*] Journ. Acad. Nat. Sci. Philad., 1825, n. s. **4**, 361–364. 1825.3

—— Descriptions of four new species of Muræenophis [*M. macularia, M. zebra, M. ocellata, M. bengalensis*] Journ. Acad. Nat. Sci. Philad., 1825, n. s. **5**, 107–109. pl. Abstract in Bull. Sci. Nat. (Férussac), **12**, 279. 1825.4

—— American ichthyology, or natural history of the fishes of North America, with coloured figures executed from nature. New Harmony, Indiana, 1827. 6 p. 5 pls. 8°. 1827.1

—— New work on ichthyology. Amer. Journ. Sci., 1828, **13**, 390. 1828.1

Announcement of his forthcoming work on American ichthyology.

—— Note sur l'œuvre ichthyologique de C. A. Lesueur. *See* **Vaillant,** *L.*, in Bull. Soc. Philom. Paris, 1898, 8. sér. **8**, 15–33. Also separate; Paris, 1898. 34 pls. 1898.1

Letacq, *A. L.* Nouvelles observations sur la faune des vertébrés du département de l'Orne. Bull. Soc. Linn. Normandie, 1897, 4. sér. **10**, 79–86. Extract in Feuille Jeunes Natur., 3. sér. **27**, 171. 1897.1

—— Sur une truite arc-en-ciel (*Salmo irideus* Gibb.) capturée dans la Thouanne, à Tanville (Orne) Bull. Soc. Sci. Nat. Rouen, 1900, 4. sér. **35**, 145–148. 1900.1

—— Sur un essai d'acclimatation du poisson-chat (*Amiurus albidus* Gibb.) fait dans l'étang de Radon (Orne) Bull. Soc. Amis Sci. Nat. Rouen, 1906, **41**, 353–355. 1906.1

—— Sur les mammifères, les oiseaux et les poissons disparus ou en voie de disparition de la faune de l'Orne. Bull. Soc. Linn. Normandie, 1907, 5. sér. **9**, 52–73. 1907.1

—— Le poisson-chat (*Amiurus catus* Br.) naturalisé dans l'étang de Radon (Orne) Bull. Soc. Amis Sci. Nat. Rouen, 1909, 5. sér. **44**, 27–29. 1909.1

—— Le poisson-chat et la tanche verte de Russie dans l'étang de Bois-Roger (Orne) Bull. Soc. Amis Sci. Nat. Rouen, 1909, 5. sér. **44**, 219–221. 1909.2

—— La perche-soleil (*Eupomotis gibbosus*) naturalisée dans un des étangs de Fontenay-les Louvets (Orne) Bull. Soc. Amis Sci. Nat. Rouen, 1910, 5. sér. **45**, 101–102. 1910.1

Leth, *Franz Henrik Theodor* [1825 —] Iagttagelser over aalene. Fiskeritidende, 1882, 393–398. *Ibid.*, 1883, 59–61. 1882.1

—— Et foredrag om aalen. Dansk Fiskeriforen. Medlemsbl., 1892, 1. Jahrg., 260–262; 268–270; 275–277. 1892.1

—— Sygdom blandt aalene. Dansk Fiskeriforen. Medlemsbl., 1897, 6. Jahrg., 86–87. 1897.1

Letheby, *Henry.* An account of the dissection of a *Gymnotus electricus*, together with reasons for believing that it derives its electricity from the brain and spinal cord, and that the nervous and electrical forces are identical. Proc. Electr. Soc. London, 1843, 367–385. 1843.1

—— An account of the dissection of a second *Gymnotus electricus*, together with a description of the electrical phenomena and the anatomy of the Torpedo. Proc. Electr. Soc. London, 1843, 512–527. 1843.2

—— On animal electricity. Proc. Electr. Soc. London, 1843, 537. 1843.3

Le Timbre, *A. M.* Pêche de la morue en Islande. Rev. Marit. Colon., 1872, **32**, 74–85. Also separate; Paris, 1872. 1872.1

Letkemann, *Hermann V.* Ueber das Photographieren lebender Fische im New-Yorker Aquarium. Natur u. Haus, 1902, 11. Jahrg., 33–34. 1902.1

Letourneux, *A.*, & **Playfair,** *Robert Lambert.* Memoir on the hydrographical system and the freshwater fish of Algeria. Ann. Mag. Nat. Hist., 1871, 4. ser. **8**, 373–394. 1871.1

Letsch, *Emil.* Die schweizerischen Molassekohlen östlich der Reuss. Beiträg zur Geologie der Schweiz. Bern, 1899. 253 p. 13 pls. 4°. 1899.1

Contains mention of fossil fishes.

Leuchs, *Johann Carl* [1797 —] Vortheilhafte Benützung der Fische, des Fischrogens, der Fischteiche; nebst G. Leuchs Verfahren Albumin aus Fischrogen darzustellen, Bemerkungen über den Fischfang an verschiedenen Orten und Anleitung zur künstliche Fischzucht. Nürnberg, 1862. 8°. 1862.1

Leuckart, [*Carl Georg Friedrich*] *Rudolf* [1823–1898] Ueber die allmählige Bildung der Körpergestalt bei den Rochen; zur Entwicklungsgeschichte von *Torpedo marmorata.* Zeitschr. Wiss. Zool., 1850, **2**, 254–267. pl. 1850.1

Leuckart, *R.*

—— Nachweis von Porenkanälchen in den Epidermiszellen von Ammocœtes. Verh. Phys. Med. Ges. Würzburg, 1856, **7**, pt. 2, 193–195. 1856.1

—— Bau und Entwickelungsgeschichte der Pentastomen. Leipzig, 1860. 6 pls. 4°. 1860.1

—— Ueber muthmassliche Nebenaugen bei einem Fische, *Chauliodus sloani.* Ber. Deutsch. Naturf. Aerzte, 1865, **39**, 153–155. — Ann. Mag. Nat. Hist., 3. ser. **17**, 320. 1865.1

—— Sur l'existence probable des yeux accessoires chez un poisson. Abstract in Arch. Sci. Phys. Nat. Genève, 1866, n. s. **25**, 95. 1866.1

—— Organologie des Auges (In Gräfe-Sämisch. Handbuch der Gesellschaft der Augenheilkunde, p. 2. Leipzig, 1875) 1875.1

—— Hybridism in fishes. Arch. Naturges., 1882, 2. ser. **48**, 309–315. 1882.1

—— Ueber Bastardfische. Berlin, 1882. 9 p. 8°. 1882.2

—— Ein Gutachten über Verunreinigung von Fisch-Wässern, etc. Cassel, 1886. 1886.1

—— Festschrift zum siebenzigsten Geburtstage R. Leuckarts, herausgegeben von E. O. W. Taschenberg. Leipzig, 1892. xv, 413 p. 40 pls. & 43 figs. 1892.1

Die bisherigen Publicationen Rudolf Leuckarts, von Otto Taschenberg, p. x–xv.

Altpermische Saurierfährten, Fische und Medusen der Gegend von Friedrichroda in Thüringen, von Hans Pohlig, p. 59–64.

Variabilität und Bastardbildung bei Cyprinoiden, von Friedrich Heincke, p. 65–73.

Ueber die Thätigkeit der Kalymmocyten (Testazellen) bei der Entwicklung einiger Synascidien, von Wladimir Salensky, p. 109–120

Ueber die Entwicklung des Venensystems der Selachier, von Carl Rabl, p. 228–235.

Ueber eine Ichthyophthirius-Art aus den Aquarien der biologischen Station zu Plön, von Otto Zacharias, p. 289–292.

Leuckart, [*Carl Georg Friedrich*] *Rudolf,* & **Nitsche,** *Heinrich.* Zoologische Wandtafeln, i–xlviii, mit Erklärungen, etc. Leipzig, 1877–87. charts & text. 4°. 1877.1

Leuckart, *Friedrich Sigismund* [1794–1843] Ueber den Foetus von *Squalus acanthias* [*Acanthias vulgaris*] Isis (Oken), 1831, 1086–1088. 1831.1

—— Allgemeine Einleitung in der Naturgeschichte. Stuttgart, 1832. 130 p. 2 pls. 8°. 1832.1

This work forms Bd. i of the "Naturgeschichte der drei Reiche," by G. W. Bischoff and others.

—— Untersuchungen über die äusseren Kiemen der Embryonen von Rochen und Hayen; ein Beitrag zur Entwicklungsgeschichte der Abtheilung der Knorpelfische angehörenden Plagiostomen. Stuttgart, 1836. vi, 44 p. 5 pls. 8°. 1836.1

—— Einige zoologische Bemerkungen. I. Ueber das Genus Lepidosiren. Neue Notizen (Froriep), 1840, no. 266, **13**, 17–20. 1840.1

Leuckart, *Rudolf. See* **Leuckart,** [*Carl Georg Friedrich*] *Rudolf.*

Leunis, *Johannes* [1802–1873] Synopsis der drei Naturreiche, mit vorzüglicher Berücksichtigung der nützlichen und schädlichen Naturkörper Deutschlands . . . Erster Theil, Zoologie. Hannover, 1844. 8°. 1844.1

—— The same. Zweite, gänzliche umgearbeitete und vermehrte Auflage. Hannover, 1860. lxvi, 1014 p. illust. 8°. 1860.1

The alternative title reads: "Synopsis der Naturgeschichte des Thierreichs," etc. Fishes are treated in p. 343–410.

—— The same. Dritte Auflage, umgearbeitete . . . von Dr. Hubert Ludwig. 2 vols. Hannover, 1883–86. illust. 8°. 1883.1

Fishes are treated in Bd. i, p. 631–796.

Leuthard, *Franz.* Beiträge zur Kenntnis der Flora und Fauna der Lettenkohle von Neueselt bei Basel. Eclogue Géol. Helvét., 1901, **7**, 125–128. 1901.1

Leuthner, *Franz Joseph.* Die mittelrheinischen Fischfauna, mit besonderer Berücksichtigung des Rheins bei Basel, nebst einer mit kurzen Diagnosen versehenen systematischen Uebersicht zur Bestimmung der rheinischen Fische. Basel, Genf & Lyon, 1877. 59 p. 8°. 1877.1

—— Vorkommen alpiner Coregonen im Rheine bei Basel. Verh. Schweiz. Naturf. Gesell., 1878, 135–136. Also separate; Bern, 1878. 1 p. 8°. 1878.1

Lévadoux, *Michel.* Sur l'artère coronaire chez les téléostéens. C. R. Assoc. Anat., 6. sess., 1904, 189–190. 1904.1

Levander, *Gustaf V.* Gedanken und Beobachtungen über die Laiche der Quappe [Text in Swedish and Finnish] Fiskeritidskr. Finl., 1903, pts. 6–7, 125–127. — Luonnon Ystävä, **5**, 112–114. 1903.1

—— Ueber die Verbreitung der Fische in den Gewässern von Pielavesi [Text in Finnish] Luonnon Ystävä, Helsingfors, 1906, **10**, 33–37. 1906.1

Levander, *Kaarlo Mainio* [För Hvita hafvet nya fiskar] Meddel. Soc. Fauna Flora Fenn., 1888–89, **15**, 225–226. 1888.1

—— Förteckning öfver fiskar från Hvita hafvet. Meddel. Soc. Fauna Flora Fenn., 1888–89, **15**, 231. 1888.2

—— Gåfvor till universitetets zoologiska finska museum. Meddel. Soc. Fauna Flora Fenn., 1893, **19**, 3; 37–38; 133–135; 1894, **20**, 61; 77–79; 1895, **21**, 45–46; 52; 71; 91; 1896, **23**, 13–14; 26–27; 43–44; 68–69; 1900, **24**, 7–8; 1900, **25**, 9, 45–46; 1900, **26**, 54. 1893.1

—— Om gäddfisket i Pyhäjärvi. Tidskr. Jägare & Fisk., 1893, **1**, 179–180. 1893.2

—— Om förekomsten af *Pleuronectes platessa* i Finska viken. Meddel. Soc. Fauna Flora Fenn., 1894, **20**, 92–94. 1894.1

—— Ankeriaan muodonvaihdoksesta. Luonnon Ystävä, 1897, **1**, 89–91. 4 figs. 1897.1

—— Eläviä keuhkokaloja (*Protopterus annectens*) Helsingissä. Luonnon Ystävä, 1897, **1**, 82–84. 1897.2

—— Harvinainen iso piikkikampela (*Rhombus maximus*) Luonnon Ystävä, 1897, **1**, 94. 1897.3

—— Ruutana (*Cyprinopsis carassius*) meressä. Luonnon Ystävä, 1897, **1**, 108. 1897.4

—— Omituinen syvän veden haikala. Luonnon Ystävä, 1898, **2**, 47–49. 2 figs. 1898.1

—— Muutamia havaintoja eräitten kalalajiemme ravinnosta. Luonnon Ystävä, 1899, **3**, 62–65; 135–138. 1899.1

—— Förekomsten af en Myxosporidium-Art i muskulaturen hos sikar. Meddel. Soc. Fauna Flora Fenn., 1900, **24**, 43. 1900.1

—— *Gasterosteus aculeatus* af 82 mm. längd. Meddel. Soc. Fauna Flora Fenn., 1900, **25**, 5; 134. 1900.2

—— Zur Kenntniss der Fauna und Flora Finnischer Binnenseen. Acta Soc. Fauna Flora Fenn., 1900, **19**, no. 2. 53 p. fig. 1900.3

—— Zur Kenntniss des Lebens in den stehenden Kleingewässern auf den Skäreninseln. Acta Soc. Fauna Flora Fenn., 1900, **18**, no. 6. 107 p. 2 figs. 1900.4

—— Beiträge zur Fauna und Algenflora der süssen Gewässer an der Murmanküste. Acta Soc. Fauna Flora Fenn., 1901, **20**, no. 8. 35 p. 1901.1

—— Bemerkenswerte Fische [Text in Swedish] Fiskeritidskr. Finland, 1901, **10**, pts. 10–11, 180–181. 1901.2

—— Beobachtungen über Nahrung und parasitische Würmer der Fische in einigen seichten Buchten des Kirchspiels Kyrkslätt [Text in Swedish] Fiskeritidskr. Finland, 1901, **10**, 197–203. *Ibid.*, 1902, **11**, 24–25. 1901.3

—— Ueber die Nahrung der Fischbrut [Text in Finnish] Luonnon Ystävä, 1901, **5**, 192–195. 1901.4

—— Uebersicht der in der Umgebung von Esbo-Löfö im Meereswasser vorkommenden Thiere. Acta Soc. Fauna Flora Fenn., 1901, **20**, no. 6. 20 p. 1901.5

—— Om förekomsten af bergsimpan, *Cottus pœcilopus* Heckel, i Finland. Meddel. Soc. Fauna Flora Fenn., 1902, 28. Heft, 74–75. 1902.1

—— Ueber die Verbreitung der Binnenseefische im Kirchspiele Kyrkslätt [Text in Swedish] Fiskeritidskr. Finl., 1903, **12**, pts. 10–11, 180–182. 1903.1

—— Nagra ord i anledning af förekomsten af stora larver af *Ligula intestinalis*. Meddel. Soc. Fauna Flora Fenn., 1904, **30**, 109–112; 218. 1904.1

—— Beiträge zur Kenntnis des Sees Valkea-Mustajärvi der Fischereiversuchsstation Evois. Acta Soc. Fauna Flora Fenn., 1906, **28**, no. 1. 28 p. 1906.1

—— Om larver af *Dibothriocephalus latus* i insjölax. Meddel. Soc. Fauna Flora Fenn., 1906, **32**, 93. 1906.2

—— Ueber Cysten in der Leber von *Lota vulgaris* [Text in Swedish] Fiskeritidskr. Finland, 1906, **15**, 93–102. — Luonnon Ystävä, **10**, 1–7. 1906.3

—— Ueber die Laichplätze des Aales nach den neuesten Forschungen [Text in Swedish] Luonnon Ystävä, 1906, **10**, 46–49. 1906.4

Levander, *K. M.*

—— Verzeichnis der Süsswasserfische Finlands [Text in Swedish] Luonnon Ystävä, 1907, **11**, 41–52. 1907.1

—— Beobachtungen über die Nahrung und die Parasiten der Fische des Finnischen Meerbusens. Finl. Hydrograph. Biol. Untersuch., 1909, no. 5. 44 p. 1909.1

—— Tierphänologische Beobachtungen in Finland, Jahrgang 1907. Bidr. Känn. Finlands Natur Vetensk. Soc., Helsingfors, 1909, **67**, no. 3, 1–90. map. 1909.2

Levander, *Kaarlo Mainio,* **Husen,** *E. von,* **Winkler,** *H. von,* & **Schneider,** *Guido. See* **Schneider, Levander** & others.

Levander, *Kaarlo Mainio,* & **Schneider,** *Guido. See* **Schneider** & **Levander.**

Levander, *Kaarlo Mainio,* **Westerlund,** *A.*, **Stenroos,** *K. E.*, & **Palmén,** *J. A. See* **Stenroos, Palmén** & others.

Levene, *Phoebus A.* Some chemical changes in the developing fish egg. Bull. U. S. Fish Comm. 1899 (1901), **19**, 153–155. 1901.1

—— Ueber das Ichthulin des Kabeljau. Zeitschr. Physiol. Chem., Strassburg, 1901, **32**, 281–284. 1901.2

Levene, *Phoebus A.*, & **Mandel,** *J. A.* Darstellung und Analyse einiger Nucleinsäuren. 11. Mitteilung. Ueber die Nucleinkörper des Eies des Schellfisches (*Gadus aeglefinus*) 12. Mitteilung. Nucleinsäure der Spermatozoen des Maifisches (Alosa) Zeitschr. Physiol. Chem., Strassburg, 1906, **49**, 262–265. *Ibid.*, **50**, 1–9. 1906.1

Levi, *Cesare.* Una nuova località per *Ancistrodon splendens* de Koninck (sp.) Atti Soc. Veneto-Trent. Sci. Nat. Padova, 1902, 2. ser. **4**, 33–36. 3 figs. 1902.1

Levi, *Giuseppe.* La struttura dei gangli cerebro-spinali nei selaci e nei teleostei. Nota preliminare. Monit. Zool. Ital., Firenze, 1906, **17**, 242–248. 3 figs. 1906.1

—— Appunti alla pubblicazione di Donaggio " Nuovi dati sulle propaggini nervose del citoplasma e sulle fibre collagene dei gangli spinali." Monit. Zool. Ital., Firenze, 1911, **22**, 146–151. 1911.1

Levi, *Leone.* The economic condition of fishermen. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **4**. 1883.1

Levi-Morenos, *David.* Note di pesca e d'aquicultura. Atti Istit. Veneto Sci., 1895, 7. ser. **6**, 357–385. 1895.1

—— Sul nutrimento preferito delle larve di alcuni insetti ed applicazione pratica di questa conoscenza all' elevamento dei salmonidi. Notarisia, 1901, **6**. 1901.1

—— Per organizzare la pesca nella Libia. Mem. R. Comitat. Talassogr. Ital., Venezia, 1912, Mem. no. 16, 1–35. 2 pls. & map. 1912.1

Levinsen, *J. Chr. L.*, **Grimm,** *Oscar von,* **Henking,** *H.*, & **Trybom,** *Fil. See* **Grimm, Henking** & others.

Levison, *F.* [A double-headed shark] Nord, Med. Ark., 1878, **10**, 2. Heft, no. 9. 1878.1

Levy, *M.* Einige Versuche über das Verhalten des gemeinen Stichlings (*Gasterosteus aculeatus*) gegen Kochsalz-, Glaubersalz- und Bittersalzlösungen. Zool. Beobacht., Frankfurt-a.-M., 1909, **50**, 333–334. 1909.1

Lévy, *Maurice.* Alphonse Milne-Edwards. Cosmos, 1900, **42**, 570–571. portr. 1900.1

Levy, *O.* Elementares Praktikum der Entwicklungsgeschichte der Wirbeltiere mit Einführung in die Entwicklungsmechanik. Berlin, 1913. 183 p. 8°. 1913.1

Lewis, *Alonzo,* & **Newhall,** *James B.* History of Lynn, Essex county, Massachusetts, including Lynnfield, Swampscott, etc. Boston, 1865. 620 p. 8°. 1865.1

Contains frequent references to fish, and at p. 382–388 an account of the Lynn sea-serpent of 1819.

Lewis, *H. L.* Habitat of smelts. Forest & Stream, 1878, **11**, 400. 1878.1

Lewis, *Matthew Gregory.* Journal of a West India proprietor, kept during a residence in the island of Jamaica. London, 1834. 1834.1

Contains frequent mention of marine and freshwater fishes.

Lewis, *Warner.* Game fish in Virginia. Rod & Gun, 1875, **6**, 322–323. 1875.1

Treats of the "chubs" of the waters near Piedmont.

Lewis, *Warren Hannon.* The experimental production of cyclopia in the fish embryo (*Fundulus heteroclitus*) Anat. Record, 1909, **3**, 175–181. 1909.1

—— Experiments on localization and regeneration in the embryonic shield and germ ring of a teleost fish (*Fundulus heteroclitus*) Anat. Record, 1912, **6**, 325–332. pl. 1912.1

—— Experiments on localization in the eggs of a teleost fish (*Fundulus heteroclitus*) Anat. Record, 1912, **6**, 1–6. 29 figs. 1912.2

Lewysohn, L. Die Zoologie des Talmuds; umfassende Darstellung der rabbinischen Zoologie, unter steter Vergleichung der Forschungen älterer und neuerer Schriftsteller. Frankfurt-a.-M., 1858. xii, 400 p. 8°. 1858.1

Lex (*pseudon.*) Parasites on fish. Chicago Field, 1878, **9**, 260. 1878.1

Leydig, *Franz* [1821 —] Ueber die Schleimcanäle der Knochenfische. Arch. Anat. (Müller), 1850, 170–181. 1850.1

—— Vorläufige Notiz über ein eigenthümliches Verhalten der Nerven in den Schleimcanälen des Kaulbarsches (*Acerina cernua*) Froriep's Tagsber. (*Zool.*), 1850, **1**, no. 79, 121–122. 1850.2

—— Ueber die Haut einiger Süsswasserfische. Zeitschr. Wiss. Zool., 1851, **3**, 1–12. pl. 1851.1

—— Ueber die Nervenknöpfe in den Schleimkanälen von Lepidoleprus, Umbrina und Corvina. Arch. Anat. (Müller), 1851, 235–240. figs. 1851.2

—— Beiträge zur mikroskopischen Anatomie und Entwickelungsgeschichte der Rochen und Haie. Leipzig, 1852. pl. 8°. 1852.1

—— Anatomische-histologische Untersuchungen über Fische und Reptilien. Berlin, 1853. 4°. 1853.1

—— Einige histologische Beobachtungen über den Schlammpeitzger [*Cobitis fossilis*] Arch. Anat. (Müller), 1853, 3–8. 1853.2

—— Histologische Bemerkungen über den *Polypterus bichir*. Zeitschr. Wiss. Zool., 1854, **5**, 40–74. 2 pls. 1854.1

—— Neue Beiträge zur anatomischen Kenntniss der Hautdecke und Hautsinnesorgane der Fische. Festschrift zum Feier des 100-Jährigen Bestehens Naturf. Gesell. Halle, 1879, 129–186. 2 pls. Also separate; Halle, 1879. 58 p. 4°. 1879.1

—— Ueber die Nebenaugen des *Chauliodus sloani*. Arch. Anat. Entwicklungsgesch., 1879, 365–382. fig. 1879.2

—— Die augenähnlichen Organe der Fische. Bonn, 1881. 100 p. 10 pls. 8°. 1881.1

—— Ueber Verbreitung der Thiere im Rhöngebirge und Mainthal, mit Hinblick auf Eifel und Rheinthal. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1882, **38**, 43–183. 1882.1

Fishes, p. 89–91.

—— Ueber das Blau in der Farbe der Thiere. Zool. Anz., 1885, **8**, 752–758. 1885.1

Blauer Farbenton der Fische, p. 753.

—— Das Parietalorgan der Wirbelthiere. Zool. Anz., 1887, **10**, 534–539. 1887.1

—— Nervenendkörperchen in der Haut der Fische. Zool. Anz., 1888, **11**, 40–44. 1888.1

—— Blaufarbiger Wasserfrosch; Leuchtflecken der Ellritze. Zool. Garten, 1892, **33**, 1–7. 1892.1

—— Integument brünstiger Fische und Amphibien. Biol. Centralbl., 1892, **12**, 205–221. 1892.2

—— Springfrosch, *Rana agilis;* Ellritze, *Phoxinus lævis.* Zool. Garten, 1892, **33**, 321–326. 1892.3

—— Zur Kenntniss der Legeröhre des Bitterlings. Zool. Garten, 1892, **33**, 129–133. 1892.4

—— Besteht eine Beziehung zwischen Hautsinnesorganen und Haaren? Biol. Centralbl., 1893, **13**, 359–375. 1893.1

Incidental reference to fishes.

—— Einiges zum Bau der Netzhaut des Auges. Zool. Jahrb. (*Abth. Anat.*), 1894, **7**, 309–330. pl. 1894.1

—— Integument und Hautsinnesorgane der Knochenfische; weitere Beiträge. Zool. Jahrb. (*Abth. Anat.*), 1895, **8**, 1–152. 7 pls. 1895.1

—— Koprolithen und Urolithen. Biol. Centralbl., 1896, **16**, no. 3, 101–103. — Neues Jahrb. Mineral., 1896, **2**, 139–140. 1896.1

—— Zur Kenntnis der Zirbel und Parietalorgane; fortgesetzte Studien. Abh. Senck. Naturf. Ges., Frankfurt-a.-M., 1896, **19**, 217–278. 4 pls. 1896.2

Leydig, *F.*

—— Bemerkungen zu den "Leuchtorganen" der Selachier. Anat. Anz., 1902, **22**, 297–301. 1909.1

Lichtenfelt, *H.* Ueber die chemische Zusammensetzung einiger Fischarten, warum und wie sie periodisch wechselt. Arch. Gesam. Physiol., 1904, **103**, 353–402. 2 figs. 1904.1

—— Literatur zur Fischkunde; eine Vorarbeit. Bonn, 1906. viii, 140 p. 8°. 1906.1

Lichtenstein, *Martin Heinrich Carl* [1780–1857] Die Werke von Marcgrave und Piso über die Naturgeschichte Brasiliens, erläutert aus den wieder aufgefundenen Originalzeichnungen. Abh. Akad. Wiss. Berlin 1814–15 (1818), 200–222. *Ibid.* 1816–17 (1819), 155–177. *Ibid.*, 1820–21, 267–288. *Ibid.*, 1826, 49–65. 1818.1

Fishes of Brazil are identified. *See also* **Gudger,** *E. W.*, George Marcgrave, the first student of American natural history. Pop. Sci. Monthly, 1912, **81**, 250–274.

—— Ueber einige neue Arten von Fischen aus der Gattung Silurus [*Pimelodus coruscans*, *P. macropterus*, *P. filamentosus*, und *Silurus cæcutiens*] Zool. Mag. (Wiedemann), 1819, **1**, pt. 3, 57–63. 1819.1

—— Verzeichniss der Doubletten des zoologischen Museums der Königlichen Universität zu Berlin, nebst Beschreibung vieler bisher unbekannter Arten von Säugethieren, Vögeln, Amphibien und Fischen, herausgegeben von Dr. H. Lichtenstein. Berlin, 1823. 118 p. pl. 8°. 1823.1

—— Wirbelbewegung der Kiemen von *Syngnathus hippocampus*. Arch. Naturgesch., 1836, pt. 2, 128–129. 1836.1

—— (*editor*) Descriptiones animalium quæ in itinere ad maris Australis terras per annos 1772–1774 suscepto, collegit, observavit et delineavit Joannes Reinoldus Forster. Berlin, 1844. xiii, 424 p. pl. 8°. 1844.1

Lickteig, *A.* Beitrag zur Kenntnis der Geschlechtsorgane der Knochenfische. Zeitschr. Wiss. Zool., 1913, **106**, 228–288. 3 pls. 1913.1

Lidbeck, *Eric Gustaf.* Beskrifning på en fiskmås ifrån Lappland. Handl. K. Vetensk. Akad., 1764, 149. 1764.1

Liddell, *H. T.* Observations on the young of salmon and some remarks on the migration of eels. Trans. Nat. Hist. Soc. Northumberland, 1838, **2**, 304–308. 1838.1

Lidth de Jeude, *Theodor Willem van.* On deformities of the head in Salmonidæ. Notes Leyden Mus., 1885, **7**, 259–261. 1885.1

—— On a collection of reptiles and fishes from the West Indies. Notes Leyden Mus., 1887, **9**, 129–139. pl. 1887.1

—— On the occurrence of *Lampris luna* Gmel. on the Dutch coast. Notes Leyden Mus., 1889, **11**, 85–86. 1889.1

—— On *Orthagoriscus nasus* Ranzani. Notes Leyden Mus., 1892, **14**, 127–128. pl. 1892.1

—— Catalogue ostéologique des poissons, reptiles et amphibies. Mus. Hist. Nat. Pays-bas, Leyde, Revue Méthodique, 1898, **10**, pt. 2, 1–117. 8°. 1898.1

Liebe, *Otto.* Ueber die Forellenarten des Zschopaugebietes und die Färbung der Bachforelle. 5. Ber. Naturw. Gesell. Chemnitz 1873–74 (1875), 41–45. 1875.1

Liebenau, *Theodor von.* Geschichte der Fischerei im Kanton Luzern. Luzern [n. d.] 137 p. fol.

—— Geschichte der Fischerei auf einem verschwundenen Schweizersee. Schweizer. Fischerei Zeitg., 1893, **1**, 1–6. Also separate; Pfäffikon-Zürich, 1893. 6 p. 8°. 1893.1

—— Zur Geschichte der Fischer-Mayen. Schweizerische Fischerei Zeitg., 1893, **1**, 13–14. Also separate; Pfäffikon-Zürich, 1893. 2 p. 8°. 1893.2

—— Blicke in die Geschichte der Fischerei. Schweizer. Fischerei Zeitg., 1895, **3**, 294; 327; 337. *Ibid.*, 1896, **4**, 15; 32; 84; 111; 129; 141; 157; 183. Also separate; Pfäffikon-Zürich, 1895–96. 18 p. 8°. 1895.1

—— Geschichte der Fischerei in der Schweiz. Erworben und veröffentlicht vom Eidgenössischen Departement des Innern. Bern, 1897. 207 p. fig. 8°. 1897.1

Liebeneiner, —— Bericht über die Wirksamkeit der Fischzucht-Anstalt in Oliva bei Danzig im Jahre 1873–74. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 4, 161–163. 1875.1

Liebers, *Arnold.* Meine Erfahrungen in der Zucht und Pflege von *Haplochilus macrostigma* Boulenger. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 66–67. fig. 1913.1

Liebert, *F.* Note sur les essais de pisciculture tentés à Milianah. Bull. Soc. Acclim. Paris, 2. sér. 1864, **1**, 338–340. 1864.1

—— La pisciculture à Milianah. Bull. Soc. Climatol. Alger, 1864, 1. année, 22–24. 1864.2

Liebert, *F.*, & **Redeke,** *H. C.* *See* **Redeke & Liebert.**

Liebig, *Theodor.* Zuchtversuche mit *Danio rerio.* Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 582–583. 1906.1

—— Beobachtungen an *Geophagus gymnogenys.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 635–636. 1909.1

—— Einiges vom getupften Gurami. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 592–594. fig. 1909.2

—— Von *Girardinus caudimaculatus.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 646–648. fig. 1909.3

—— Ein neuer Diamantbarsch. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 613–615. fig. 1910.1

—— Ueber die Schutzmittel unserer Pfleglinge. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 447–450; 459–460. 2 figs. 1910.2

—— *Rasbora heteromorpha.* Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 181–184. fig. 1911.1

—— Aufzucht und Metamorphose des *Callichthys punctatus.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 506–508. 3 figs. 1912.1

—— Betta spec. aus Sumatra. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 761–763. 2 figs. 1912.2

—— *Haplochromis moffatii.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 585–587. fig. 1912.3

—— *Hemigrammus* (*Tetragonopterus*) *unilineatus* Gill. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 618–619. fig. 1912.4

—— Laichakt des Panzerwels (*Corydoras marmoratus* Steind.) Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 426–428. fig. 1912.5

—— Liebesspiele des *Haplochilus latipes.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 396–398. fig. 1912.6

—— *Tetragonopterus ocellifer.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 537–538. fig. 1912.7

—— Der "Dukatenfisch," eine prächtige neue Züchtung. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 414–415. 1913.1

—— Ein neuer lebendgebärender Kärpfling aus Colon. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 433–434. fig. 1913.2

—— Myletes spec. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 421–423. fig. 1913.3

—— Von Zwergwels (*Amiurus nebulosus* Rafin.) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 449–452. fig. 1913.4

Liebreich, *Oscar.* Betrachtungen über die physikalische Eigenschaft der Schwimmblase der Fische. Arch. Anat. Physiol. (*Physiol. Abth.*), 1890 (*Suppl.*), 142–161. 1890.1

—— Ueber die physikalische Function der Schwimmblase bei Fischen. Arch. Anat. Physiol. (*Physiol. Abth.*), 1890, 360–365. 1890.2

Liebscher, *Alfred.* *Haplochilus latipes.* Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 272–273. 1901.1

—— Einige Worte über den Kletterfisch. Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 46–47. 1901.2

—— *Geophagus brasiliensis* und seine Zucht. Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 261–262. 1901.3

—— Meine Beobachtungen an Girardinus spec. Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 129–130. 1901.4

—— *Callichthys punctatus* d'Orle. Blätt. Aquar.-Terrar. Kunde, 1904, 15. Jahrg., 149–150. 1904.1

Liénard, *Elizé.* Sur quelques poissons de l'île Maurice. L'Institut, 1836, **4**, no. 167, p. 240. *Ibid.*, no. 175, p. 305. 1836.1

—— Description d'une nouvelle espèce du genre mole (Orthagoriscus Schn.) découverte à l'île Maurice. Rev. Zool., 1840, **3**, 291–292. 1840.1

Liénard, *E.*
—— Description d'une nouvelle espèce de gibelle, dite *Julis laportei*. Act. Soc. Linn. Bordeaux, 1845, **14**, 112–114. 1845.1

Liéoux, *Paul de Sède de. See* **Sède de Liéoux,** *Paul de.*

Lieto-Vollaro, —— *de.* Das elastische Gewebe in der Iris des Menschen und einiger Vertebraten. Klin. Monatsbl. Augenheilk., 1908, n. s. **5**, 198. 1908.1

Lieventhal, *C.* Ueber Ptomaïne in giftigem Störfleische. Pharm. Zeitschr. Russland, 1887, **26**. 1887.1

Lightbody, *Robert.* Remarks on Mr. Robert's paper on Cephalaspis. Geologist, 1861, 140–141. 1861.1

Lilienthal, *G.* Versuche mit einem Vogelmodell und Beobachtungen an Möven und fliegenden Fischen. Zeitschr. Flugtechnik, München, 1911, **2**, 297–300. 1911.1

Liljeborg, *N.* Om insjöfiskar i Norrige. Oefvers. K. Vet. Akad. Förh., 1844, 213–214. 1844.1

—— Om insjöfiskar i Norrige. Oefvers. K. Vet. Akad. Förh., 1845, 213–214. 1845.1

—— Ny art af fiskslägtet Platessa. Oefvers. K. Vet. Akad. Förh., 1850, 5–6. 1850.1

Liljeborg, *Wilhelm. See* **Lilljeborg,** *Wilhelm.*

Lillie, *Ralph Stayner* [1875 —] The ancestry of the vertebrates. Univ. Toronto Quart., 1896, **2**, 181–196. 1896.1

Lillingston, *B.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 437. 1879.1

Lilljeborg, *Wilhelm* [1816 —] Om förhållandet mellan Skandinaviens och norra Rysslands fauner. Oefvers. K. Vet. Akad. Förh., 1857, **4**, 1–8. 1857.1

—— Bidrag till kännedomen om *Pterycombus brama* Fries, en fisk af makrillfiskarnes familj. Upsala, 1864. 9 p. 4°. 1864.1

—— En för Sveriges fauna ny fisk, *Leucaspius delineatus* Heckel. Oefvers K. Vet. Akad. Förh. 1871 (1872), **28**, 815–821. fig. 1872.1

—— Sveriges och Norges fiskar. 3 vols. Upsala, 1884–91. 8°. 1884.1

Lim-Boon-Keng, ——, & **Boddaert,** *Albert.* Notice sur la toxicité des poissons. Ann. Soc. Méd. Gand, 1901, **80**, 235–241. pl. 1901.1

Limborg, *H.* Handbok i fiske och fiskodling. Stockholm, 1880. 230 p. 8°. 1880.1

—— Lyckad befruktning af Gösrom. Sporten, 1886, **6**, 51. 1886.1

—— Insjöfisket i juni–juli. Tidskr. Jägare & Fisk., 1894, **2**, 35–38. — Fiskeritidskr. Finl., 1894, **3**, 100–104. 1894.1

—— Insjöfisket under augusti–september. Tidskr. Jägare & Fisk., 1894, **2**, 76. 1894.2

—— Insjöfisket under december–januari. Tidskr. Jägare & Fisk., 1894, **3**, 228–229. 1894.3

—— Insjöfisket under februari–mars. Tidskr. Jägare & Fisk., 1894, **1**, 232–234. 1894.4

—— Insjöfisket under oktober–november. Tidskr. Jägare & Fisk., 1894, **1**, 108–110. 1894.5

—— Om ålen och ålfiske. Fiskeritidskr. Finl., 1894, **3**, 89–98. 2 pls. 1894.6

—— Vår-insjöfisket. April–maj. Tidskr. Jägare & Fisk., 1894, **1**, 270–274. — Fiskeritidskr. Finl., 1894, **3**, 63–67. 1894.7

—— Om fiskevård i insjövatten. Fiskeritidskr. Finl., 1895, **4**, 81–84. 1895.1

—— Gösodlingsförsök i Sverge. Fiskeritidskr. Finl., 1899, **8**, 206–207. 1899.1

Limprich, ——, **König,** *Joseph,* & **Thienemann,** *August. See* **König, Thienemann** & **Limprich.**

Limpricht, *H.* Vorläufige Notiz über einige Bestandteile der Fleischflüssigkeit von Fischen. Annal. Pharm. (Liebig), 1863, 127. 1863.1

Linari, *Santi.* Osservazioni sulla scintilla elettrica ottenuta dalle torpedini in Cesenatico, mediante speciale apparecchio (In Bonaparte, C. L. Iconografia della fauna italica, vol. iii. Roma, 1832–41) 1832.1

—— Neue Versuche über die Wirkungen des Zitterrochens. Neue Notizen (Froriep), 1837, **2**, no. 36, 209–211. 1837.1

—— Sur l'électricité de la torpille. L'Institut, 1837, **5**, no. 208, 144–145. 1837.2

—— Untersuchungen über die electrochemische Eigenschaft des Zitterrochens. Neue Notizen (Froriep), 1839, **9**, no. 191, 225–232. 1839.1

Linck, *Johannes Wilhelm* [1760–1805] De raja torpedine. Lipsiæ, 1788. 8°. 1788.1

Lincoln, *Thomas.* On the salmon in Maine. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 369–370. 1874.1

Lindahl, *Josua* [1844 —] The periodicity of the herrings. Some statistics of the herring fishery in Sweden. Chicago Field, 1878, **10**, 35. 1878.1

—— (*translator*) Report of the sea fisheries of the län of Göteborg and Bohus in the year 1877, by Gerhard von Yhlen. Rept. U. S. Comm. 1877 (1879), **5**, 741–750. 1879.1

—— Description of a Devonian ichthyodorulite, *Heteracanthus uddeni*, n. sp., from Buffalo, Iowa. Journ. Cincinnati Soc. Nat. Hist., 1897, **19**, 95–98. pl. 1897.1

Lindeman, *Moritz.* Die arktische Fischerei der deutschen Seestädte, 1620–1868. Petermanns Geogr. Mitt., 1869, Ergänzungsheft 26, 1–118. 1869.1

—— Grönländische Fischerei. Circul. Deutsch. Fischerei Ver., 1870, no. 4. 1870.1

—— Mittheilungen über schottische Fischerei im Sommer 1871. Circul. Deutsch. Fischerei Ver., 1872, no. 4, 98–100. 1872.1

—— [Statistisches über die schottische Häringsfischerei] Gartenlaube, Leipzig, 1873, no. 2, 50–52. 1873.1

—— Auf dem Häringsfang in Schottland. Gartenlaube, Leipzig, 1875, no. 21, 358–359. 1875.1

—— Die deutsche Heringsfischerei. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 3, 105–109. 1875.2

—— Forellenzucht in den Vereinigten Staaten von Nordamerika. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 6, 242–256. 1875.3

—— Bericht über eine im Sommer 1874 unternommene Reise zur Erforschung der Fischerei - Verhältnisse Schottlands und Englands . . . Circul. Deutsch. Fischerei Ver. 1875 (1876), no. 5, 281–322. 1876.1

—— Canadische und englische Fischereien. Circul. Deutsch. Fischerei Ver. 1876 (1877), no. 3, 129–131. 1877.1

—— Der Fischzuchtverein Ohrdruf. Circul. Deutsch. Fischerei Ver. 1877 (1878), no. 6, 182–184. 1878.1

—— Die Seefischereien, ihre Gebiete, Betrieb und Erträge in 1869–78. Petermanns Mitth., Gotha, 1880, Ergänzungsband **13**. Also separate; Gotha, 1880. vi, 95 p. 1880.1

Linden, *Charles.* Recollections of Marajo island [Rayas, a poisonous fish in the Amazon] Amer. Sportsman, 1875, **6**, 18. 1875.1

—— The capture of the electrical eel of South America. Chicago Field, 1879, **11**, 233. 1879.1

Linden, *Maria von.* Die ontogenetische Entwicklung der Zeichnung beim Aal (*Anguilla vulgaris* Flemm.) Jahresber. Fischerei Ver. Bonn, 1905, 70–75. pl. Also separate; Bonn, 1905. 8 p. pl. 8°. 1905.1

Lindenhain, *Guido.* Zur Naturgeschichte der Aale. Oesterr.-ungar. Fischerei Zeitg., 1880, 46–47; 54; 60; 68; 75; 84–85. 1880.1

Lindes, *Ludwig.* Der Arinna oder Temblator [*Gymnotus electricus*] Oesterr.-ungar. Fischerei Zeitg., 1880, 82–83. 1880.1

—— Das Aussetzen der Jungfischchen. Oesterr.-ungar. Fischerei Zeitg., 1880, 378. 1880.2

—— Der australische Burnett- oder Dawson-Salm [*Ceratodus forsteri*] Oesterr.-ungar. Fischerei Zeitg., 1880, 90–91. 1880.3

—— Die Bildung von Fischerei Genossenschaften und Laich-Schonrevieren. Oesterr.-ungar. Fischerei Zeitg., 1880, 336–337; 345–346. 1880.4

—— Eine Endstation der Lachswanderungen [am Fusse des Tatragebirges] Oesterr.-ungar. Fischerei Zeitg., 1880, 386–387. 1880.5

—— Die Fischerei-Verhältnisse Russlands. Oesterr.-ungar. Fischerei Zeitg., 1880, 278. 1880.6

Lindes, *L.*

—— Fischzucht als Zauberei. Oesterr.-ungar. Fischerei Zeitg., 1880, 26–27. 1880.7

— Der Jonashai [*Carcharodon rondeletii*] Oesterr.-ungar. Fischerei Zeitg., 1880, 114–115. 1880.8

—— Der Kabeljau [*Gadus morrhua*] Oesterr.-ungar. Fischerei Zeitg., 1880, 150–151. 1880.9

—— Kain und Abel im Wasser [*Esox lucius*] Oesterr.-ungar. Fischerei Zeitg., 1880, 58–59. 1880.10

—— Die künstliche Fischzucht in Konstantinopel. Oesterr.-ungar. Fischerei Zeitg., 1880, 174–175. 1880.11

—— Landwanderungen des Aals. Oesterr.-ungar. Fischerei Zeitg., 1880, 394–395. 1880.12

—— Der Orthagoriscus. Oesterr.-ungar. Fischerei Zeitg., 1880, 182. 1880.13

—— Die rationelle Fischzucht in Oesterreich im Vergleich zu anderen Staaten. Oesterr.-ungar. Fischerei Zeitg. 1880, 4–5; 12–13; 21–22; 26–27; 52; 59–60; 67; 73–74; 82–83; 91–92; 98–99; 108–109; 115–125; 139; 153; 158–159; 166–167; 176; 184; 200–201; 208; 215–216; 225; 233; 241–242; 247–248; etc. 1880.14

—— Die Wasser- und Fischerei-Verhältnisse in Galizien. Oesterr.-ungar. Fischerei Zeitg., 1880, 365–366. 1880.15

Lindfors, *A. M.* Smärre meddelanden om fiskeriförhållandena å skilda orter i vårt land. I. Om fisket och fiskevattnen i Tammela socken. Fiskeritidskr. Finl., 1895, **4**, 129–131. 1895.1

Lindman, *Carl Axel Magnus* [1856—] Om drifved och andra af hafsströmmar uppkastate naturfóremal vid Norges kuster. Handl. Götheb. K. Vetensk. Vitterh. Samh., 1883, **18**. 1883.1

Lindon, *E. V.* Ueber Eishäuser und deren Einrichtung zum Transport von Fischlaich. Zeitschr. Wiss. Zool., 1869, **19**, Heft 3, 375–380. pl. 1869.1

Lindroth, *P. G.* *Gymnetrus grillii* uptäckt och beskrifven. Handl. K. Vetensk. Akad., 1798, **19**, 288–298. pl. 1798.1

Lindsay, *Alexander.* On the *Amphioxus lanceolatus.* Ann. Mag. Nat. Hist., 1857, 2. ser. **20**, 339–340. 1857.1

Lindsay, *William Lauder* [1829–1880] Salmon acclimatization in New Zealand. Trans. Proc. New Zealand Instit. 1873 (1874), **6**, 436–437. 1874.1

Lindsey, *W. H.* A season at Harwich. London, 1851. 8°. 1851.1

Contains some notice of fishes.

Lindstedt, *Philip.* Om byggandet och skötseln of karp- och sutare dammar. Skrift. Södra Sveriges Fiskerifören., 1911, no. 8, 72–104. 14 figs. *Ibid.*, 1912, no. 9, 143–166. 8 figs. *Ibid.*, 1913, no. 10, 75–128. 10 figs. 1911.1

Lindström, *Gustaf* [1829–1901] Om fynd af Cyathaspis i Gotlands silurformation. Oefvers. Vet. Akad. Forh., 1894, 515–518. — Geol. Mag., 4. dec. **2**, 170–172. 1894.1

—— On remains of a Cyathaspis from the Silurian strata of Gotland. Bihang Handl. K. Vetensk. Akad. 1895 (1896), **21**, no. 3, 1–15. 2 pls. & 2 figs. 1896.1

Ling, *J. A.* On the diminishing of the fishing of salmon and Coregonus in the rivers of the province of Vesterbotten, N. Sweden [Text in Swedish] Svensk Fisk. Tidskr., Stockholm, 1901, **10**, 49–64. 1901.1

Lingwood, *R. M.* A short outline of a fauna for part of Herefordshire. Ann. Mag. Nat. Hist., 1840, **5**, 184–188. 1840.1

Pisces, p. 188.

Link, *E.* Ueber eine in der Haut von Fischen parasitisch lebende grüne Alge. Zool. Anz., 1911, **37**, 506–510. 3 figs. 1911.1

Link, *Heinrich Friedrich* [1767–1851] Versuch einer Eintheilung der Fische nach den Zähnen. Mag. Physik Naturgesch. (Lichtenberg & Voigt), 1790, **6**, pt. 3, 28. 1790.1

Link, *L.* Ein neuer Hautschmarotzer bei Fischen. Allgem. Fischerei Zeitung, 1911, no. 6. 1911.1

Link, *W.* Benutzung von Gewässern zur Fischzucht, in welchen bisher keine Fische existirten. Mitth. Fischereiwesen, München, 1878, 3. Jahrg., 41–42. — Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 131. 1878.1

Linke, —— Ueber die Fütterung der Salmoniden. Allgem. Fischerei Zeitg., 1903, no. 20, 377. 1903.1

Linko, *Alexander.* Untersuchungen über das Plankton des Barents-Meeres [Text in Russian] St. Petersburg, 1907. 248 p. 1907.1

Linkola, *K.* Rote Barsche [Text in Swedish] Luonnon Ystävä, 1910, **14,** 38–39. 1910.1

Linnæus, *Carl,* afterwards **Linné,** *Carl von* [1707–1778] Opera varia, in quibus continentur fundamenta botanica, sponsalia plantarum, et systema naturæ, etc. Lucæ, 1758. 376 p. pl. 8°. 1758.1

The "Systema naturæ" is taken from the fourth edition, Paris, 1744.

—— Systema naturæ sive regna tria naturæ, systematice proposita per classes, ordines, genera et species, cum characteribus, differentiis, synonymis, locis, etc. Editio decima, reformata. 2 vols. Holmiæ, 1758–59. 8°. 1758.2

Tom. i. Regnum animale, ii, 824 p. 1758.
Tom. ii. Regnum vegetabile, ii, 825–1384 p. 1759.

Further editions of this work are omitted from this Bibliography. For an index to the generic and trivial names of animals described in the tenth and twelfth editions, see that compiled by C. D. Sherborn and contained in the Manchester Museum Handbook, no. 25, 1899. There is a modern reprint of the editio decima, published by the Deutsche Zoologische Gesellschaft at Leipzic, 1894.

—— (*editor*) P. Artedi renovata. Ichthyologia, sive opera omnia de piscibus . . . posthuma edidit C. Linnæus. Cura J. J. Walbaumi. 5 pls. Grypeswaldiæ [1788] 1789–93. 8°. 1789.1

—— A catalogue of the birds, beasts, fishes, insects, plants, etc. contained in Edwards' Natural History . . . with their Latin names, etc. 7 vols. London, 1776. 4°. 1776.1

—— Fauna suecica, sistens animalia Sueciæ regni; quadrupeda, aves, amphibia, pisces, insecta, vermes, distributa per classes et ordines, genera et species; cum differentiis specierum, synonymis autorum, nominibus incolarum, locis habitationum, descriptionibus insectorum. Lipsiæ, 1800. 8°. 1800.1

The first edition of this work was published in 1746.

—— Egenhändiga anteckningar med Anmärkningar och tillägg [by A. Afzelius] Stockholm, 1823. xxiv, 248 p. 6 pls. 4°. 1823.1

For an English translation of this autobiography, *see* **Pulteney,** *R.* A general view of the writings of Linnæus, etc. 2. ed. 1805.

—— Systema naturæ; index by C. D. Sherborn. Handbooks Manchester Museum Owens College, 1899, public. no. 25, 108 p. 8°. 1899.1

—— Bibliographia Linnæana; matériaux pour servir à une bibliographie Linnéenne, recueillis par J. M. Hulth. Pt. 1. Upsala, 1907. 8°. 1907.1

—— Memorials of Linnæus, by A. B. Rendle. Collection of portraits, manuscripts, specimens and books exhibited to commemorate the bicentenary of his birth. British Museum (Nat. Hist.), Special Guide, no. 3. London, 1907. 2 pls. 8°. 1907.2

—— Bref och skrifvelser, med understöd af Svenska staten utgifna af Upsala Universitet. Series 1, del 4, 5. 2 vols. Stockholm, 1910–11. 8°. 1910.1

Linnæus, *Carl,* & **Gmelin,** *Johann Friedrich.* Systema naturæ per regna tria naturæ . . . editio decima tertia, etc. Cura J. T. Gmelin. 3 vols. in 9 pts. Lipsiæ, 1788–93. 8°. 1788.1

Fishes, vol. i, pt. 3, p. 1126–1516.
In this alleged thirteenth edition Gmelin brought together descriptions of species unrecognized by Linné and unknown to him, hence the compilation is more properly accredited to Gmelin as editor. Dr. T. N. Gill's comments on this work will be found under the editor's name, at p. 479, vol. i, of the present Bibliography.

Linnert, *Kurt.* Enthält Kaviar (Stör- resp. Hauseneier) Purinbasen? Biochem. Zeitschr., 1909, **18,** 209–210. 1909.1

Linossier, *G.* Action des alcools de fermentation sur les poissons. C. R. Mém. Soc. Biol. Paris, 1901, 1120–1123. 1901.1

Linsley, *J. H.* Catalogue of the fishes of Connecticut, arranged according to their natural families. Amer. Journ. Sci., 1844, **47,** 55–80. 1844.1

A list of 173 nominal species, of which 148 are salt or brackish water and 25 freshwater.

Linstow, *Otto Fr. Bernhard von. Bliccopsis abramo-rutilus* H. und *B. erythrophthalmoides* Jäck. Arch. Naturgesch., 1873, 39. Jahrg., **1,** 306–307. 1873.1

—— Compendium der Helminthologie. Hanover, 1878. 1878.1

Enumerates the fishes in which parasitic works are found, giving lists of those which affect each species, p. 206–290.

—— Ichthyologische Notizen. Arch. Naturgesch., 1878, 44. Jahrg., **1,** 246–250. 1878.2

—— Die Fortpflanzungsgeschichte des Aals. Zeitschr. Naturwiss., 1900, **72,** 317–330. 5 figs. 1900.1

Linstow, *O. F. B.*

—— Die organischen Reste der Trias von Lüneburg. Jahrb. Preuss. Geol. Landesanst., Berlin, 1904, **24**, 129–164. pl. 1904.1

Contains notices of Triassic fishes.

—— Ueber zwei neue Entozoa aus Acipenseriden. Ann. Mus. Zool. Acad. Sci. St. Petersb., 1904, **9**, pts. 1–2, 17–19. 1904.2

—— Die deutschen Fischgifte. Allgem. Fischerei Zeitg., 1905, **30**, 341–344. 1905.1

—— Zwei neue Distomum aus *Lucioperca sandra* der Wolga. Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1907, **12**, 201–202. 1907.1

Linton, *Edwin* [1855 —] Notes on entozoa of marine fishes of New England, with description of several new species. Part i. Rept. U. S. Fish Comm. 1886 (1889), **14**, 453–511. 6 pls. 1889.1

—— A contribution to the life history of *Dibothrium cordiceps* Leidy, a parasite infesting the trout of Yellowstone lake. Bull. U. S. Fish Comm. 1889 (1891), **9**, 337–358. 3 pls. 1891.1

—— Notes on entozoa of marine fishes of New England, with description of several new species. Part ii. Rept. U. S. Fish Comm. 1887 (1891), **15**, 719–899. 15 pls. 1891.2

—— Notice of the occurrence of protozoan parasites (psorosperms) on cyprinoid fishes in Ohio. Bull U. S. Fish Comm. 1889 (1891), **9**, 359–361. pl. 1891.3

—— On certain wart-like excrescences, occurring on the short minnow, *Cyprinodon variegatus*, due to psorosperms. Bull. U. S. Fish Comm. 1889 (1891), **9**, 99–102. pl. 1891.4

—— On two species of larval Dibothria from the Yellowstone National Park. Bull. U. S. Fish Comm. 1889 (1891), **9**, 65–79. 5 pls. 1891.5

Parasites found in the body cavity of the sucker and in the stomach and abdominal muscles of trout.

—— Notes on entozoa of marine fishes with description of new species. Part iii. Rept. U. S. Fish Comm. 1888 (1892), **16**, 523–542. 7 pls. 1892.1

—— On the anatomy of *Thysanocephalum crispum* Linton, a parasite of the tiger shark. Rept. U. S. Fish Comm. 1888 (1892), **16**, 543–556. 6 pls. 1892.2

—— On fish entozoa from Yellowstone National Park. Rept. U. S. Fish Comm. 1889–91 (1893), 545–564. 5 pls. 1893.1

In addition to forms previously described *Monobothrium terebrans* from the sucker and encysted distoma from the chub; *Distomum laureatum* from the trout; *Echinorhynchus globosus* from trout; *E. tuberosus* from sucker and chub; *Dachnitis globosa* from trout and three unidentified nematodes from the same host.

—— Some observations concerning fish parasites. Bull. U. S. Fish Comm. 1893 (1894), **13**, 101–126. 8 pls. 1894.1

—— An economical consideration of fish parasites. Bull. U. S. Fish Comm. 1897 (1898), **17**, 194–199. 1898.1

General discussion of relations of parasites to fish culture. Considers also effect of each type of parasite, their frequence and economic importance.

—— Notes on cestode parasites of fishes. Proc. U. S. Nat. Mus., 1898, **20**, 423–456. 8 pls. 1898.2

Records *Tænia salvelini* from lake trout; *T. dilatata* from eel; *T. ocellata* from rock bass; *T. monobothriun hexacotyle* from sucker; *Schistocephalus dimorphus* from blob; *Cyathocephalus truncatus* from whitefish; *Dibothrium hastatum* from paddlefish; *Dibothrium infundibuliforme* from lawyer and lake trout; *Dibothrium ligula* from sucker, smelt, silver minnow, redfin; and other species not from freshwater fish.

—— Notes on trematode parasites of fishes. Proc. U. S. Nat. Mus., 1898, **20**, 507–548. 15 pls. 1898.3

Records from freshwater fish; *Diplostomum cuticola* from various sunfish; *Distomum auriculatum* from the lake sturgeon; *D. gracile* from the bluegill; besides others from migratory and marine fishes as well as some unidentified species.

—— Parasites of the fishes of the Woods Hole region. Bull. U. S. Fish Comm. 1899 (1900), **19**, 405–492. 34 pls. 1900.1

—— Fish parasites collected at Woods Hole in 1898. Bull. U. S. Fish Comm. 1899 (1901), **19**, 267–304. pls. 1901.1

—— Parasites of fishes of Beaufort, North Carolina. Bull. Bureau Fisheries, 1905, **24**, 323–428. 34 pls. 1905.1

—— A cestode parasite in the flesh of the butterfish. Bull. Bureau Fisheries, 1906, **26**, 111–132. 2 pls. 1906.1

—— Note on the habits of *Fierasfer affinis*. Amer. Naturalist, 1907, **12**, 1–4. 2 figs. 1907.1

—— Notes on the flesh parasites of marine food fishes. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 1195–1209. 1910.1

—— The diagnosis of a case of parasitism in the brook trout. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 629–632. 1912.1

—— Notes on the distribution of entozoa of North American marine fishes. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 686–696. 1912.2

—— Trematode parasites in the skin and flesh of fish and the agency of birds in their occurrence. Trans. Amer. Fisheries Soc. 1911 (1912), 245–261. 1912.3

—— Cestode cysts in the flesh of marine fish and their bearing on food values. Trans. Amer. Fisheries Soc. 1912 (1913), 119–128. 1913.1

Lion, —— Die Krankheiten der Fische und Schaalthiere in sanitätspolizeilicher Beziehung. Deutsch. Klinik., Monatsbl. Med. Statistik, 1867, **19**, 61–67; 75–76; 83–84. *Ibid.*, 1868, **20**, 9–12; 17–18. 1867.1

Lioy, *Paolo* [1836 —] Cenni sulle marne fossilifere di Chiavon nel Vicentino. Atti Soc. Ital. Sci. Nat. Milano, 1865, **8**, 406–409. 1865.1

Contains notices of fossil fishes.

—— Sopra alcuni avanzi di Plagiostomi fossili del Vicentino e specialmente sull' *Alopiopsis plejodon* Lioy (*Galeus cuvieri* Ag.) Atti Soc. Ital. Sci. Nat. Milano, 1865, **8**, 398–405. pl. 1865.2

—— Sulle clupee fossili di Bolca. Atti Soc. Ital. Sci. Nat. Milano, 1865, **8**, 410–414. 1865.3

Lioy, *Paolo*, & **Rumor,** *Sebastiano*. Bibliografia geologica della provincia di Vicenza. Vicenza, 1901. 1901.1

Lipold, *J.* Fossile Fisch- und Pflanzenreste aus den Meletta-Schichten von Wurzenegg bei Prassberg. Verh. Geol. Reichsanst. Wien, 1867, 197–199. 1867.1

Lipschütz, *Alexander*. Ueber den Hungerstoffwechsel der Fische. Zeitschr. Allg. Physiol., 1911, **12**, 118–124. 1911.1

—— Zur Frage über die Ernährung der Fische. Zeitschr. Allg. Physiol., 1911, **12**, 59–117. 4 figs. 1911.2

List, *Joseph Heinrich*. Das Cloakenepithel von *Scyllium canicula*. Zool. Anz., 1884, **7**, 545–546. 1884.1

—— Ueber einzellige Drüsen (Becherzellen) im Cloakenepithel der Rochen. Zool. Anz., 1885, **8**, 50–51. 1885.1

—— Ueber einzellige Drüsen (Becherzellen) in der Oberhaut von *Torpedo marmorata*. Zool. Anz., 1885, **8**, 388–389. 1885.2

—— Ueber Wanderzellen im Epithel. Zool. Anz., 1885, **8**, 389–390. 1885.3

—— Ueber Bastardierungsversuche bei Knochenfischen (Labriden) Biol. Centralbl., 1887, **7**, 20–21. 1887.1

—— Ueber die Variation der Laichzeit bei Labriden. Biol. Centralbl., 1887, **7**, 64. 1887.2

—— Zur Entwicklungsgeschichte der Knochenfische (Labriden) Zeitschr. Wiss. Zool., 1887, **45**, 595–645. 3 pls. & 9 figs. 1887.3

—— Zur Herkunft des Periblastes bei Knochenfischen (Labriden) Biol. Centralbl., 1887, **7**, 81–88. 1887.4

—— Ueber die Beziehung der Harnblase zu dem Enddarme bei Teleostierembryonen (Labriden) Anat. Anz., 1889, **4**, 501–504. figs. 1889.1

Lister, *J. Lupton*. Sea-fishing at Tenby. Tenby, 1879. 68 p. 8°. 1879.1

Littaye, (*Prof.*) —— Notice sur la pêche à la morue. Paris, 1891. 60 p. 8°. 1891.1

Littleboy, *John E.* The Bulborne and Gade, with notes on the fish of the two rivers. Trans. Watford Nat. Hist. Soc. 1877–79 (1880), **2**, 113–128. 1880.1

Lizars, *Alexander Jardine*. On the organs of sense in the salmon. Rept. Brit. Assoc. Adv. Sci., 10. meet., 1840, pt. 2, 134–135. 1840.1

Ljungman, *Axel Vilhelm* [1841 —] Preliminär berättelse för 1873–74 öfver de beträffende sillen och sillfisket vid Sveriges vestkust anstallda undersökningarna. Upsala, 1874. 74 p. 8°. 1874.1

—— Undersökningar till hafsfiskets befrämjande uti Skagerrack och Kattegat. Norsk. Tidskr. Fiskeri, 1875, n. s. 2. Jahrg., 1–14. 1875.1

—— Preliminary report for 1873–74, on the herring and the herring fisheries on the west coast of Sweden. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 123–167. 1876.1

Ljungman, *A. V.*

—— Nagra ord om de stora Bohuslänska sillfiskena. Göteborg, 1877. 31 p. 8°. 1877.1

—— Bohusläns hafsfisken och de vetenskapliga hafsfiskeundersökningarna. 2 pts. Göteborg, 1878. 8°. 1878.1

—— Bidrag till kännedomen om sillens lefnadsförhållanden. Norsk. Tidskr. Fiskeri, 1879, n. s. 5. Jahrg., 269–285. 1879.1

—— Bidrag till lösningen af fragan om de stora sillfiskenas sekulara periodicitet. Norsk. Tidskr. Fiskeri, 1879, n. s. 5. Jahrg., 257–268. 1879.2

—— Om sillens och skarpsillens fortplantning och tillväxt med serskild hänsyn till Bohusläns skärgård. Norsk. Tidskr. Fiskeri, 1879, n. s. 5. Jahrg., 193–231. 1879.3

—— The great Bohuslän herring fisheries. Rept. U. S. Fish Comm. 1878 (1880), **6**, 221–239. 1880.1

—— The propagation and growth of the herring and small herring, with special regard to the coast of Bohuslän. Rept. U. S. Fish Comm. 1878 (1880), **6**, 639–659. 1880.2

—— The saltwater fisheries of Bohuslän and the scientific investigation of the saltwater fisheries. Rept. U. S. Fish Comm. 1878 (1880), **6**, 143–220. 1880.3

—— Contribution toward solving the question of the secular periodicity of the great herring fisheries. Rept. U. S. Fish Comm. 1879 (1882), **7**, 497–503. 1882.1

—— Contributions toward a more correct knowledge of the herring's mode of life. Rept. U. S. Fish Comm. 1879 (1882), **7**, 505–513. 1882.2

—— The Bohuslän sea-fisheries and their future. Rept. U. S. Fish Comm. 1880 (1883), **8**, 89–98. 1883.1

—— What should be done by the government with regard to the great Bohuslän herring fisheries. Rept. U. S. Fish Comm. 1880 (1883), **8**, 99–126. 1883.2

—— The great herring fisheries considered from an economical point of view. Rept. U. S. Fish Comm. 1883 (1885), **11**, 341–357. 1885.1

—— Special results of the investigations relating to the herring and herring fisheries on the west coast of Sweden, made during the years 1873–1883 [Translated from the Swedish] Rept. U. S. Fish Comm. 1883 (1885), **11**, 729–745. 1885.2

—— The future of the herring fisheries on the coast of Bohuslän. Rept. U. S. Fish Comm. 1884 (1886), **12**, 399–409. 1886.1

Lloyd, *A. Horace.* Freshwater fish in confinement. Zoologist, 1856, **14**, 4947–4948. 1856.1

Lloyd, *John.* The Severn, Wye and Usk fishery district. Conservation of Wye and Usk, etc. London, 1868. 8°. 1868.1

—— The air- or swim-bladder of fishes. Trans. Woolhope Nat. Field Club 1868 (1869), 133–143. pl. 1869.1

Lloyd, *John,* & **Symonds,** —— Pisciculture in Herefordshire. Trans. Woolhope Nat. Field Club 1867 (1868), 129–131. 1868.1

Lloyd, *Llewellyn* [1793–1876] The game-birds and wild fowl of Sweden and Norway, together with an account of the seals and saltwater fishes of those countries; with a map and illustrations in chromolithography and woodcuts. London, 1867. 8°. 1867.1

Lloyd, *R. E.* Notes on the skull of the genus Aulostomatomorpha, with descriptions of some new deep-sea fish (In Natural history notes from the R. I. M. S. ship "Investigator." Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 306–311. fig.) 1906.1

—— Contributions to the fauna of the Arabian sea, with descriptions of new fishes and crustacea. Rec. Indian Mus., 1907, **1**, 1–12. 1907.1

—— Description of the type of a new genus of hydroids parasitic on fish. Rec. Indian Mus., 1907, **1**, pt. 4, 281–289. 2 pls. 1907.2

—— Notes on a collection of marketable fish from Akyab, with a description of a new species of Lactarius. Rec. Indian Mus., 1907, **1**, 219–230. pl. 1907.3

—— *Nudiclava monocanthi,* the type of a new genus of hydroids parasitic on fish. Rec. Indian Mus., 1907, **1**, 281–289. 2 pls. 1907.4

—— The occurrence of *Rhinodon typicus* at the head of the bay of Bengal. Rec. Indian Mus., 1908, **2**, 306. 1908.1

—— On two new species of eagle-rays (Myliobatidæ) with notes on the skull of the genus Ceratoptera. Rec. Indian Mus., 1908, **2**, 175–180. 3 pls. 1908.2

—— Report on the fish collected in Tibet by Capt. F. H. Stewart, I. M. S. Rec. Indian Mus., 1908, **2**, 341–345. pl. 1908.3

—— A description of the deep-sea fish caught by the R. I. M. S. ship "Investigator" since the year 1900, with supposed evidence of mutation in Malthopsis. Mem. Indian Mus., 1909, **2**, 139–180. 7 pls. & 8 figs. 1909.1

—— The growth of groups in the animal kingdom. New York, Bombay, etc., 1912. 8°. 1912.1
Polymorphism in Malthopsis, p. 140–148.

Lloyd, *Sylvester C.* Breeding goldfish. Aquarium, 1912, 62–64. 1912.1

Lloyd, *William Alford* [1815?–1880] The grey mullet [*Mugil capito*] Sci. Gossip 1866 (1867), 145–147. 1867.1

—— Aquaria, their present, past and future. Pop. Sci. Rev., 1876, **15**. 1876.1

—— Conveyance of live fish. Forest & Stream, 1876, **7**, 35. 1876.2

Loberg, *O. N.* Norges fiskerier. Christiania, 1864. 324 p. 8°. 1864.1

—— Brudstykker af O. N. Lobergs indberetning om hans i vinteren 1867 foretagne undersøgelser af de finmarske fiskerier. Kristiania, 1867. 57 p. 8°. 1867.1

Lo Bianco, *Salvatore.* Notizie biologiche riguardanti specialmente il periodo di maturità sessuale degli animali del golfo di Napoli. Mitth. Zool. Stat. Neapel, 1888, **8**, 385–440. *Ibid.*, 1899, **13**, 448–573. 1888.1
Pesci, **8**, 427–440.

—— Le pesche pelagische abissali esseguite del "Maia" nelle vicinanze di Capri. Mitth. Zool. Stat. Neapel, 1901, **15**, 413–482. 1901.1

—— Le pesche abissali eseguite da F. A. Krupp col yacht "Puritan" nelle adiacenze di Capri ed in altre località del Mediterraneo. Mitth. Zool. Stat. Neapel, 1903, **16**, 109–279. 3 pls. 1903.1

—— Pelagische Tiefseefischerei der "Maja" in der Umgebung von Capri. Jena, 1904. 91 p. 31 pls. 8°. 1904.1

—— L'azione della cenere caduta durante l'eruzione del Vesuvio nell' Aprile 1906 sulle specie commestibili marine. Atti Istit. Incorag. Napoli, 1907, 6. ser. **58**, 211–216. 1907.1
Mortality of fishes.

—— L'origine dei barbigli tattili nel genere Mullus. Rendic. Accad. Lincei, Roma, 1907, 5. ser. **16**, 577–586. 8 figs. 1907.2

—— Grande pesca di sauri avvenuta nel golfo di Napoli e sue adiacenze durante i mesi da maggio ad agosto 1908. Rivist. Mens. Pesca, 1908, **10**, 213–217. 1908.1

—— Sviluppo larvale, metamorfosi e biologia della "Triglia di fango" (*Mullus barbatus* Linn.) Mitth. Zool. Stat. Neapel, 1908, **19**, 18–50. 2 pls. — Rivist. Mens. Pesca, 1908, **10**, 145–151; 168–176. pl. 1908.2

—— Uova e larve di *Trachypterus tænia* Bl. Mitth. Zool. Stat. Neapel, 1908, **19**, 1–17. pl. 1908.3

—— La pesca della "Fragaglia" nel golfo di Napoli durante gli anni 1906–1909. Rivist. Mens. Pesca, 1909, **11**, 1–44. 1909.1

—— Ulteriori studi sulla "Fragaglia" del golfo di Napoli. Rivist. Mens. Pesca, 1910, **12**, 102–138. 1910.1

—— Risultati delle indagini sul pesce novello nel Tirreno. Ann. Agric. Roma, 1911, no. 263, 200–240. 1911.1

—— Su alcuni stadii postlarvali appartenenti a gadidi rari del golfo di Napoli. Mitth. Zool. Stat. Neapel, 1911, **20**, 170–187. pl. 1911.2

Locard, *Arnould* [1841–1904] Description de la faune de la Molasse marine et d'eau douce du Lyonnais et du Dauphiné. Arch. Mus. Hist. Nat. Lyon, 1878, **2**, 1–284. 2 pls. 1878.1
Poissons, p. 7–9.

—— La pêche et les poissons des eaux douces, etc. Paris, 1891. 12° (Bibliothèque des connaissances utiles) 1891.1

Loch, *James.* Observations upon the salmon in loch Shin, in Sutherland. Mag. Nat. Hist., 1837, **1**, 208–211. 1837.1

Lochner, —— Der Zander im Bodensee. Schweiz. Fischerei Zeitg., 1896, **4**, 242. Also separate; Pfäffikon-Zürich, 1896. 1 p. 8°. 1896.1

Lochner, —— Nürnberg's Vorzeit. For list of fishes in this work, *see* **Kuster,** *H. C., supra.*

Lochner von Hüttenbach, —— Die Coregonen des Bodensees. Aus d. Heimat, Stuttgart, 1904, **17**, 84–87. 1904.1

—— Die Laichzeit der Coregonen im bayerischen Teil des Bodensees im Spätherbst 1906. Allgem. Fischerei Zeitg., 1907, 32. Jahrg., 76–77. 1907.1

Locke, *W. M.* Aquarium and fish notes from the Wabash. Chicago Field, 1878, **10**, 52. 1878.1

—— Habits of the gar and grindle. Chicago Field, 1878, **10**, 3–4. 1878.2

—— An alligator gar in the Wabash; how gars spawn. Chicago Field, 1879, **11**, 341. 1879.1

—— Fish notes from southern Illinois. Chicago Field, 1879, **11**, 244. 1879.2

—— Habits of the Bubalichthys. Chicago Field, 1879, **12**, 85. 1879.3

—— The grindle as a game fish. Chicago Field, 1879, **10**, 364. 1879.4

Lockington, *William Neale* [1842?–1902] Notes on some California marine fishes, with description of a new species [*Argyreiosus pacificus*] Proc. Calif. Acad. Sci. 1876 (1877), **7**, 83–88; 108–110. 1877.1

—— Remarks upon the various fishes [of the family Scorpænidæ] known as rock-cod. Proc. Calif. Acad. Sci. 1876 (1877), **7**, pt. 1, 79–82. 1877.2

—— The long-jawed goby [*Gillichthys mirabilis* Cooper] Amer. Naturalist, 1877, **11**, 474–478. 1877.3

—— Note on the *Saurus lucioceps* of Ayres. Ann. Mag. Nat. Hist., 1878, 5. ser. **2**, 348–349. 1878.1

—— Walks around San Francisco. Lake Honda and Seal rock. Amer. Naturalist, 1878, **12**, 786–793. 1878.2

Description of *Bdellostoma stouti*, p. 793.

—— Report upon the food fishes of San Francisco. Rept. Calif. Comm. Fisheries, 1878–79, 17–58. 1879.1

—— Descriptions of new genera and species of fishes from the coast of California. Proc. U. S. Nat. Mus., 1879, **2**, 326–332. 1879.2

—— Do fish hear? Chicago Field, 1879, **12**, 116. 1879.3

—— The flounders of our markets. Scient. Press Suppl., April, 1879. — Mining & Scient. Press, April 12 & 19, 1879. 1879.4

—— The north Pacific cod-fishery. Chicago Field, 1879, **12**, 53. 1879.5

—— Note sur quelques Pleuronectes de Californie. Bull. Soc. Philom. Paris, 1879, **3**, 242–243. — Le Naturaliste, no. 12, 91–92. 1879.6

—— Notes on new and rare fishes. Scient. Press Suppl., July, 1879. 1879.7

—— Notes on some fishes of the coast of California. No. 1. Amer. Naturalist, 1879, **13**, 299–308. 1879.8

—— Notes on some undescribed fishes of the Pacific coast. Scient. Press Suppl., Nov., 1879, p. 76. 1879.9

—— Notes on Pacific coast fishes and fisheries. Amer. Naturalist, 1879, **13**, 684–687. 1879.10

—— On a new genus of Scombridæ. Proc. Acad. Nat. Sci. Philad., 1879, 133–136. 1879.11

—— Review of the Pleuronectidæ of San Francisco. Proc. U. S. Nat. Mus., 1879, **2**, 69–108. — Smithson. Misc. Coll., 1880, **19**, art. 2. 1879.12

—— Description of a new chiroid fish, *Myriolepis zonifer*, from Monterey bay, California. Proc. U. S. Nat. Mus., 1880, **3**, 248–251. 1880.1

—— Description of a new fish from Alaska (*Uranidea microstoma*) Proc. U. S. Nat. Mus., 1880, **3**, 58–59. 1880.2

—— Description of a new genus and some new species of California fishes (*Icosteus ænigmaticus* and *Osmerus attenuatus*) Proc. U. S. Nat. Mus., 1880, **3**, 63–68. 1880.3

—— Description of a new sparoid fish (*Sparus brachysomus*) from Lower California. Proc. U. S. Nat. Mus., 1880, **3**, 284–286. 1880.4

—— Description of a new species of Agonidæ (*Brachyopsis verrucosus*) from the coast of California. Proc. U. S. Nat. Mus., 1880, **3**, 60–63. 1880.5

—— Description of a new species of *Hemitripterus* from Alaska [*H. cavifrons*] Proc. Acad. Nat. Sci. Philad., 1880, 233–236. 1880.6

—— Description of a new species of Prionotus (*Prionotus stephanophrys*), from the coast of California. Proc. U. S. Nat. Mus., 1880, **3**, 529–532. 1880.7

—— The herring of the Pacific coast. Amer. Naturalist, 1880, **14**, 518–519. 1880.8

—— The market fishes of San Francisco. Chicago Field, 1880, **13**, 279–280. 1880.9

—— Note on a new flat-fish (*Lepidopsetta isolepis*) found in the markets of San Francisco. Proc. U. S. Nat. Mus., 1880, **3**, p. 325. 1880.10

——Notes on California fishes. Amer. Naturalist, 1880, **14**, 366–368. 1880.11

—— Notes on new and rare fishes of the Pacific coast. Amer. Naturalist, 1880, **14**, 595–600. 1880.12

—— Notes on the Salmonidæ of California. Amer. Naturalist, 1880, **14**, 366–368. 1880.13

—— On a new genus and species of Scombridæ [*Chriomitra concolor*] Proc. Acad. Nat. Sci. Philad. 1879 (1880), 133–136. 1880.14

—— On the Clupeidæ of the Pacific coast. Amer. Naturalist, 1880, **14**, 518–519. 1880.15

—— The pompano of California. Chicago Field, 1880, **13**, 321. 1880.16

—— Remarks on the species of the genus Chirus found in San Francisco market, including one hitherto undescribed [*C. maculoseriatus*] Proc. U. S. Nat. Mus., 1880, **3**, 53–57. 1880.17

—— Report upon the edible fishes of the Pacific coast, U. S. A. Rept. Calif. Comm. Fisheries, 1880, 16–66. 1880.18

—— The "river perch" or rock bass of California. Chicago Field, 1880, **13**, 253. 1880.19

—— The rock-cod or rock fish of the San Francisco market. Chicago Field, 1880, **13**, 204. 1880.20

—— Supply of the San Francisco fish market. Chicago Field, 1880, **13**, 328. 1880.21

—— Description of a new genus and species of Cottidæ. Proc. U. S. Nat. Mus., 1881, **4**, 141–144. 1881.1

—— Description of a new species of Catostomus (*C. cypho*) from the Colorado river. Proc. Acad. Nat. Sci. Philad. 1880 (1881), 237–240. 1881.2

—— On the Pacific species of Caulolatilus. Proc. Acad. Nat. Sci. Philad. 1880 (1881), 13–19. 1881.3

—— List of the fishes collected by Mr. W. J. Fisher upon the coasts of Lower California, 1876–77, with descriptions of new species [*Cremnobates altivelis, Pholidichthys anguilliformis, Apodichthys univittatus*] Proc. Acad. Nat. Sci. Philad. 1881 (1882), 113–120. 1882.1

—— Sketch of the progress of North American ichthyology in the years 1880–1881. Amer. Naturalist, 1882, **16**, 765–772. 1882.2

Lockwood, *Samuel* [1819–1894] Parturition of Hippocampi. Zoologist, 1868, 2. ser. **3**, 1343–1344. 1868.1

—— The sea-horse [*Hippocampus hudsonius*] and its young. Amer. Naturalist, 1868, **1**, 225–234. 3 figs. — Scient. Amer., 1871, **24**, 306. 1868.2

—— A new entozoon from the eel. Amer. Naturalist, 1872, **6**, 449–454. 6 figs. 1872.1

—— More about the sea-horse. Amer. Naturalist, 1887, **21**, 111–114. 1887.1

Locy, *William Albert* [1857 —] The derivation of the pineal eye. Anat. Anz., 1893, **9**, 169–184; 231. 5 figs. 1893.1

—— The formation of the medullary groove in the elasmobranchs. Journ. Morphol., 1893, **8**, 367–378. pl. 1893.2

—— Metameric segmentation in the medullary folds and embryonic rim. Preliminary communication. Anat. Anz., 1894, **9**, 393–415. 11 figs. 1894.1

—— The mid-brain and its accessory optic vesicles; a correction. Anat. Anz., 1894, **9**, 486–488. 1894.2

—— The optic vesicles of elasmobranchs and their serial relation to other structures on the cephalic plate. Journ. Morphol., 1894, **9**, 115–122. 6 figs. 1894.3

—— Contribution to the structure and development of the vertebrate head. Journ. Morphol., 1895, **11**, 497–594. 5 pls. 1895.1

Locy, *W. A.*

—— The primary segmentation of the vertebrate head. New York, 1897. 18 p. 8 figs. (Biological lectures at the Marine Biological Laboratory, Woods Hole) 1897.1

—— New facts regarding the development of the olfactory nerve. Science, 1899, n. s. **9**, 312. — Anat. Anz., 1899, **16**, 273–290. 1899.1

—— A new cranial nerve in selachians (In Mark Anniversary Volume, p. 39–55. 2 pls. New York, 1904) 1904.1

—— A footnote to the ancestral history of the vertebrate brain. Science, 1905, n. s. **22**, 180–183. 5 figs. 1905.1

—— On a newly recognized nerve connected with the fore-brain of selachians. Anat. Anz., 1905, **26**, 33–63; 111–123. 32 figs. 1905.2

—— The fifth and sixth aortic arches in chick embryos with comments on the condition of the same vessels in other vertebrates. Anat. Anz., 1906, **29**, 287–300. 10 figs. 1906.1

—— Biology and its makers. New York, 1908. 469 p. illust. 8°. 1908.1

Lode, *A.* Beiträge zur Anatomie und Physiologie des Farbenwechsels der Fische. Sitzber. Akad. Wiss. Wien, 1891, **99**, pt. 3, 130–143. pl. 1891.1

Loeb, *Jacques* [1859 —] Ueber die Entwickelung von Fischembryonen ohne Kreislauf. Arch. Gesam. Physiol., 1893, **54**, 525–530. 1893.1

—— On the influence of light on the periodical depth-migration of pelagic animals. Bull. U. S. Fish Comm. 1893 (1894), **13**, 65–68. 1894.1

—— Ueber den Einfluss von Alkalien und Säuren auf die embryonale Entwickelung und das Wachsthum. Arch. Entw.-Mech., 1898, **7**, 631–641. pl. 1898.1

—— Ueber Heliotropismus und die periodischen Tiefenbewegungen pelagische Tiere. Biol. Zentralbl., 1908, **28**. 1908.1

—— Die Erhöhung der Giftwirkung von KCl durch niedrige Konzentrationen von NaCl [auf Fundulus-Eier] Biochem. Zeitschr., 1911, **32**, 155–163. 1911.1

—— Können die Eier von Fundulus und die jungen Fische in distilliertem Wasser leben? Arch. Entw.-Mech., 1911, **31**, 654–657. 1911.2

—— Die Bedeutung der Anpassung der Fische an den Untergrund für die Auffassung des Mechanismus des Sehens. Zentralbl. Physiol., 1912, **25**, 1015–1017. 1912.1

—— The toxicity of sugar solutions upon Fundulus, and the apparent antagonism between salts and sugar. Journ. Biol. Chem., 1912, **11**, 415–420. 1912.2

—— Untersuchungen über Permeabilität und antagonistische Elektrolytwirkung nach einer neuen Methode. Biochem. Zeitschr., 1912, **47**, 127–166. 1912.3

—— Ueber die Anpassung von Fundulus an höhere Konzentrationen. Biochem. Zeitschr., 1913, **53**, 391–405. 1913.1

Loeb, *Jacques*, & **Wasteneys**, *Hardolph.* Die Entgiftung von Natriumchlorid durch Kaliumchlorid. Biochem. Zeitschr., 1911, **33**, 480–488. 1911.1

—— Die Entgiftung von Säuren durch Salze [auf Fundulus] Biochem. Zeitschr., 1911, **33**, 489–502. 1911.2

—— Ueber die Entgiftung von Kaliumsalzen durch die Salze von Calcium und anderen Erdalkalimetallen. Biochem. Zeitschr., 1911, **32**, 308–322. 1911.3

Experiments on Fundulus.

—— On the adaptation of fish (Fundulus) to higher temperatures. Journ. Exper. Zool., 1912, **12**, 543–557. 1912.1

—— Ueber die Abhängigkeit der Zahl der Herzschläge vom Partialdruck des Sauerstoffs. Biochem. Zeitschr., 1912, **40**, 277–295. 1912.2

—— Ueber die Entgiftung von Natriumbromid. Biochem. Zeitschr., 1912, **39**, 185–193. 1912.3

NaBr wird für Fische entgiftig.

Loeb, *Leo*, & **Cooke**, *Elizabeth.* *See* **Cooke & Loeb.**

Löckle, —— Ueber Vertilgung der Fische und Krebse. Württemb. Wochnbl. Land. u. Forstw., 1867, 19. Jahrg., 88. 1867.1

Löffler, *H.* Ueber einige einheimische Fische. Preuss. Provinzialbl., 1837, **18**, 539–547. 1837.1

Löfling, *Peter* [1729–1756] Iter Hispanicum, eller resa til Spanska länderna uti Europa och America, . . . utgifven af C. Linnæus. Stockholm, 1758. xviii, 316 p. pls. 8°. 1758.1

Descriptions of nine fishes are given.
A German translation by A. B. Kölpin was published at Berlin, 1776. 8°.

Lönnberg, *Axel Johan Einar* [1865 —] Några ord om sillfisket och Bohusläns fauna i början af vintern. Biol. Fören. Förh. Stockholm, 1889, **1**, 69–74. 1889.1

—— Berättelse om besök vid åtskilliga fiskodlingsanstalter i Tyskland 1892. 1892.1

i. Om forellodlingen i Heidelberg och Handschuchsheim. Svensk. Fiskeritidskr., 1892, **1**, 163–175.
ii. Berneuchen och Lübinchen vid Guben. *Ibid.*, 1893, **2**, 49–64.

—— Ichthyologische Notizen. Bihang Handl. Svensk. Vet. Akad., 1892, **17**, pt. 4, no. 7, 1–12. pl. *Ibid.*, 1893, **18**, pt. 4, no. 2, 1–13. 1892.2

—— Några ord om fiskrökerierna i Kiel och dess omnejd. Svensk Fiskeritidskr., 1892, **1**, 49–61. 6 figs. 1892.3

—— Om betesfisk i dammar m. m. Svensk Fiskeritidskr., 1893, **2**, 101–102. 1893.1

—— Om kräfthandeln i Berlin. Fiskeritidskr. Finl., 1893, **2**, 26–28. 1893.2

—— Verldsutställningen i Chicago 1893. 1893.3

i. U. S. Fish Commissions utställning i regeringsbyggnaden vid den Columbiska världsutställningen i Chicago år 1893. Svensk Fiskeritidskr., 1893, **2**, 105–116.
ii. Den allmänna, internationella utställningen i fiskeribyggnaden vid den Columbiska verldsutställningen i Chicago 1893. *Ibid.*, 1894, **3**, 1–22.

—— Den amerikanska bäckrödingen (*Salmo fontinalis*) Svensk Fiskeritidskr., 1894, **3**, 53–57. fig. 1894.1

—— Berättelse om under en del af sommaren 1894 utförda undersökningar öfver vissa flundrefiskarter i Öresund och Kattegat samt det efter dessa af svenska fiskare bedrifna fisket. Svensk Fiskeritidskr., 1894, **3**, 120–140. fig. 1894.2

—— List of fishes observed and collected in south Florida. Oefvers. Svensk. Vet. Akad. Förh., 1894, **51**, 93–107; 109–131. 1894.3

—— Några ard om våra svenska fisknamn. Svensk Fiskeritidskr., 1894, **3**, 145–147. 1894.4

—— Några ord om myxosporiderna, hos fiskarne snyltande, encelliga djur. Svensk Fiskeritidskr., 1894, **3**, 29–32. 1894.5

—— Observations on certain flatfishes. Oefvers. Svensk. Vet. Akad. Förh., 1894, **51**, 571–588. 1894.6

—— Om beredning och tillagning af Strömming. Upsala, 1894. 32 p. 8°. 1894.7

—— Ett bidrag till kännedomen om bottenhafvets torsk. Svensk Fiskeritidskr., 1895, **4**, 50–55. 1895.1

—— Meddelande om fisket i Gelleborgs län år 1894. Svensk Fiskeritidskr., 1895, **4**, 85–95. 1895.2

—— Notes on fishes collected at Hayti by Capt. Conrad Eckman. Oefvers. Svensk. Vet. Akad. Förh., 1895, **52**, 657–663. 1895.3

—— Notes on fishes collected in the Cameroons by Mr. Y. Sjöstedt. Oefvers. Svensk. Vet. Akad. Förh., 1895, **52**, 179–195. 1895.4

—— Om den vuxna ålens vandring tillbaka till hafvet. Svensk Fiskeritidskr., 1895, **4**, 32–35. 1895.5

—— Om sjön hälsen i arbrå socken af Gefleborgs län och dess röding. Svensk Fiskeritidskr., 1895, **4**, 145–152. fig. 1895.6

—— Ytterligare bidrag till kännedomen om ålens vandring. Svensk Fiskeritidskr., 1895, **4**, 130–132. 1895.7

—— Anteckningar fråm en tjensteresa vid en del af skånska kusten sommaren 1895. Svensk Fiskeritidskr., 1896, **5**, 11–22. 1896.1

—— *Limnanthemum nymphæoides*, en ny svensk sjöväxt och dess betydelse för fisket. Svensk Fiskeritidskr., 1896, **5**, 129–132. fig. 1896.2

—— Linnæan type-specimens of birds, reptiles, batrachians and fishes in the zoological museum of the Royal University in Upsala. Bihang Handl. Svensk. Vet. Akad., 1896, pt. 4, no. 1, 1–45. 1896.3

—— Om fisket i Gefleborgs län år 1895. Svensk Fiskeritidskr., 1896, **5**, 106–113; 169–174. 1896.4

—— Zur Biologie des Lachses (*Salmo salar*) Zool. Garten, 1896, **37**, 92–93. 1896.5

Lönnberg, *A. J. E.*

—— Något om tvåkonade eller hermafroditiska fiskar. Svensk Fiskeritidskr., 1897, **6**, pt. 2, 20–23. 1897.1

—— Om gäddan och dess betydelse för fisket. Förh. Andra Allm. Svensk Fiskerikonfer., 1897, 81–88. — Svensk Fiskeritidskr., **6**, pt. 4, 25–32. 1897.2

—— Om storoch torsk i Öestersjön. Svensk Fiskeritidskr., 1897, **6**, pt. 1, 24–27. fig. 1897.3

—— Till frågan om laxens förlust i vigt under vandringen i elfvarna. Svensk Fiskeritidskr., 1897, pt. 1, 27–29. 1897.4

—— Bidrag till laxens biologi. Svensk Fiskeritidskr., 1898, **7**, 160–168. 1898.1

—— Bidrag till storspiggens biologi. Svensk Fiskeritidskr., 1898, **7**, 28–32. 1898.2

—— Ueber das vorkommen des Zanders in Schweden. Fischerei Zeitg., 1898, 1. Jahrg., 796–799. 1898.3

—— Undersökningar rörands Öeresunds djurlif [fisk] Medd. Landtbr. Styrelsen, Stockholm, 1898, no. 1, 7–19. map. *Ibid.*, 1899, no. 1, 2–11. 1898.4

—— Bidrag till laxens biologi. Svensk Fiskeritidskr., 1899, **8**, 86–93. 1899.1

—— The fauna of the Sound, translated from the Swedish by F. A. Bather. Nat. Science, 1899, **15**, 263–273. 1899.2

—— Jämförelse mellan Kaspiska hafvet och Öestersjön. Svensk Fiskeritidskr., 1899, **8**, 4–18. 1899.3

—— Något om Sveriges fiskerier (In "Sveriges Rike," vol. i, p. 235–282. 45 figs. Stockholm, 1899) 1899.4

—— Notes on the fishes collected during the Swedish Arctic expedition to Spitzbergen and King Charles Land 1898 under the direction of Professor A. G. Nathorst. Bihang Handl. Svensk. Vet. Akad., 1899, **24**, pt. 4, no. 9, 1–36. 1899.5

—— A short comparison between the Caspian and the Baltic seas. Rev. Intern. Pêche Piscicult., St. Pétersb., 1899, **1**, 3–7. 1899.6

—— Sveriges vatten och dessas invånare (In "Sveriges Rike," vol. i, p. 153–234. 120 figs. Stockholm, 1899) 1899.7

—— Till frågan om gösens tillväxt i det fria. Svensk Fiskeritidskr., 1899, **8**, 133–134. 1899.8

—— Berättelse öfver fisket i Gefleborgs län under år 1899. Svensk Fiskeritidskr., 1900, **9**, 79–84. 1900.1

—— Contributions to the ichthyology of the Caspian sea. Bihang Handl. Svensk. Vet. Akad., 1900, **26**, pt. 4, no. 8, 1–38. — Vêst. Rybopromyšl., St. Pétersb., **16**, 30–39. 1900.2

—— The fishes of the Swedish zoological polar expedition of 1900. Rev. Intern. Pêche Piscicult., St. Pétersb., 1900, **2**, no. 4, 12–13. 1900.3

—— *Lampris pelagicus* (Gunnerus) found at the Murman coast, an addition to the Russian fauna. Ann. Mus. Acad. Imp. St. Pétersb., 1900, **5**, 242–243. 1900.4

—— Något om fiskarnes fortplantning och vård om afkomman. Svensk Fiskeritidskr., 1900, **9**, 97–108. 1900.5

—— Några anteckningar om Ystadstraktens fiske. Svensk Fiskeritidskr., 1900, **9**, 72–76. 1900.6

—— Några bidrag till kännedomen om hornsimpan (*Cottus quadricornis*) Svensk Fiskeritidskr., 1900, **9**, 36–38. 1900.7

—— Om de kaspiska fiskerierna. Meddel. Landtbr.-Styrelsen, Stockholm, 1900, no. 2, 1–16. 18 figs. & map. 1900.8

—— Om strömmingsindustriens utveckling. Upsala, 1900. 12 p. 8°. 1900.9

—— Short notes on Caspian fishes. Rev. Intern. Pêche Piscicult., St. Pétersb., 1900, **2**, no. 2, 3–6. 1900.10

—— Beiträge zur Fauna der Bären-Insel. II. Der Saibling der Bären-Insel [*Salmo umbla* var.] Bihang Handl. Svensk. Vet. Akad., 1901, **26**, pt. 4, no. 4, 8. 1901.1

—— Djurvälden (In "Uppland, skildring af land och folk," utgifven af K. Humanistiska Vetenskaps-samhället i Uppsala, vol. i, p. 142–146. Uppsala, 1901–08) 1901.2

—— Fisket i Uppland (In "Uppland, skildring af land och folk," utgifven af K. Humanistiska Vetenskaps-samhället i Uppsala, vol. ii, p. 149–164. figs. 45–46. Uppsala, 1901–08) 1901.3

—— Om anfalls och försvarsmedel inom djurriket. Stockholm, 1901. 36 p. 7 pls. 8° (Föreningen heimals folkskrifter no. 72) 1901.4

—— Pisces (In Bronn, H. G. Klassen und Ordnungen des Thier-Reichs, Bd. vi, p. 1–336. 18 pls. & 35 figs. Leipzig, 1901–06) 1901.5

—— Bidrag till kännedomen om hafsdjurens utbredning uppåt Bottenhafvet. Svensk Fiskeritidskr., 1902, **11**, 151–156. 1902.1

—— En interressant fisk [*Dasybatus margarita* from the Cameroons, a viviparous specimen with tongue-like papillæ in the uterus] Svensk Fiskeritidskr., 1902, **11**, 180. 1902.2

—— Kortfattade förhållningsregler för undvikande af onödigt djurplågeri vid fångst, transport och förvaring af fisk och matnyttiga kräftdjur. Meddelade af Svenska fiskareförbundet. Svensk Fiskeritidskr., 1902, **11**, 61–64. 1902.3

—— Något om fiskarnes färger. Fören. Heimdals Artikelserie Skilda Aemnen, 1902, no. 5. 1902.4

—— Några märkliga fiskfynd. Svensk Fiskeritidskr., 1902, **11**, 46. 1902.5

—— Om färgning af garnredskap. Svensk Fiskeritidskr., 1902, **11**, 137–142. 1902.6

—— [Die sogenannte "praeanale Flosse" bei Myxine ist nur eine Hautfalte die sich bei Ausdehnung der Bauchhöhle ausgleicht] Zool. Anz., 1902, **25**, 565. 1902.7

—— Some words on dwarfed forms among Swedish fishes [Text in Swedish] Svensk Fiskeritidskr., 1902, **11**, 65–70. 1902.8

—— Undersökningar rörande skeldervikens och angränsande kattegat-områdes Djurlif. Meddel. Landtbruksstyrelsen, Stockholm, 1902, no. 2, 1–81. 1902.9

Fishes, p. 9–23.

—— Which are the smallest and which the largest of known fishes? [Text in Swedish] Svensk Fiskeritidskr., 1902, **11**, 28–35. 1902.10

—— En ändamålsenlig fiskvase. Svensk Fiskeritidskr., 1903, **12**, 37–39. 1903.1

—— En namnfråga. Svensk Fiskeritidskr., 1903, **12**, 84–85. 1903.2

—— External and internal colours of fishes [Text in Swedish] Svensk Fiskeritidskr., 1903, **12**, 13–23. 1903.3

—— Fiskeriafdelningen vid 100-årsutställningen i Karlstad sommaren 1903. Svensk Fiskeritidskr., 1903, **12**, 115–118. 1903.4

—— Fiskerünstruktören Arthur Nyströms kläckningslåda. Svensk Fiskeritidskr., 1903, **12**, 136–139. 2 figs. 1903.5

—— Fiskfynd. Svensk Fiskeritidskr., 1903, **12**, 46. 1903.6

—— Hornsimpa i Mälaren. Svensk Fiskeritidskr., 1903, **12**, 94–95. 1903.7

—— Om braxen. Svensk Fiskeritidskr., 1903, **12**, 79–83; 154–157. fig. 1903.8

—— On a collection of fishes from the Cameroon, containing new species. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 37–46. 1903.9

—— Sveriges vatten och dessas invånare (In Jägerskiöld, L. A. Lönnberg, Einar, och Adlerz, Gottfrid. Sveriges djurvärld, p. 207–286. 117 figs. Stockholm, 1903. 8°) 1903.10

—— En skandinavisk fisk som lyser. Svensk Fiskeritidskr., 1904, **13**, 72–73. 1904.1

—— Kortfattade förhållningsregler för undvikande af onödigt djurplågeri vid fångst, transport, tillagning och förvaring af fisk och matnyttiga kräftdjur. Svensk Fiskeritidskr., 1904, **13**, 173–177. 1904.2

—— Något om fisket i Holland 1903 (Utdrag ur fiskerikonsulentens rapport till Hallands läns Kgl. Hushållningssällskap) Svensk Fiskeritidskr., 1904, **13**, 76–78. 1904.3

—— On some fishes from the lakes of the Cameroon mountain. Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 135–139. 1904.4

—— [Review of] Das Handbuch der Fischkrankheiten, von Professor Dr. Bruno Hofer. Svensk Fiskeritidskr., 1904, **13**, 39–44. 1904.5

Continuation under the title Om fisksjukdomar, p. 78–82.

—— Bäckrödingen. Svensk Fiskeritidskr., 1905, **14**, 129–131. fig. 1905.1

—— Bäckrödingen regnbågsforellen i Jämtlands vatten. Svensk Fiskeritidskr., 1905, **14**, 169–172. 1905.2

Lönnberg, *A. J. E.*

—— The fishes of the Swedish South Polar expedition (In Wissenschaftliche Ergebnisse der schwedischen Südpolar-Expedition 1901–03, unter Leitung von Dr. Otto Nordenskjöld, vol. v, pt. 6, p. 1–69. 5 pls. Stockholm, 1905) 1905.3

—— Flossen der Labriden und Cichliden u. A. Zool. Anz., 1905, **28**, 470. 1905.4

—— On the occurrence of *Cottus quadricornis* in lake Mälaren and its variation according to natural conditions. Bull. Geol. Instit. Univ. Upsala, 1905, **6**, 85–91. 3 figs. 1905.5

—— Pelagische von der schwedischen Südpolar-Expedition von 1901–1903 erbeutete Fische. Zool. Anz., 1905, **28**, 762–766. 1905.6

—— Peter Artedi; a bicentenary memoir [Translated by W. E. Harlock] Upsala & Stockholm, 1905. 44 p. 8°. 1905.7

Notice by C. R. Eastman in Science, 1905, n. s. **22**, 378–379.

—— Regnbågsforellen (*Salmo irideus* Gibb.) Svensk Fiskeritidskr., 1905, **14**, 121–124. fig. 1905.8

—— Contributions to the fauna of South Georgia. I. Taxonomic and biological notes on vertebrates [Fishes] Handl. Svensk Vet. Akad., 1906, **40**, 91–100. 12 pls. 1906.1

—— De svenska ryggradsjurens vetenskapliga namn. Fauna och Flora, Uppsala, 1906, **1**, 113–128; 161–176; 225–240; 273–288. *Ibid.*, 1907, **2**, 37–52; 85–100; 181–196; 229–244; 277–296. 1906.2

—— Fiskfaunan i Tschad - sjön. Fauna och Flora, Uppsala, 1906, **1**, 95–96. 1906.3

—— Hvad kan och bör göras för att befordra tillverkning och afsättning af rökta fiskvarar? Svensk Fiskeritidskr., 1906, **15**, 112–117. 1906.4

—— Fische. Ergebn. Hamb. Magalhaens. Sammelreise, vol. viii, no. 6, 1–16. pl. Hamburg, 1907. 1907.1

—— Fishes (In Sjöstedts Kilimandjaro-Meru Expedition, vol. v, p. 7. Upsala, 1907) 1907.2

—— Hvad bör göras för höjandet af värdet på sportfiskevatten? Svensk Fiskeritidskr., 1907, **16**, 46–50. 1907.3

—— Oestersjöns största torsk. Fauna och Flora, Uppsala, 1907, **2**, 221–222. fig. 1907.4

—— Silfvertorsken, *Gadiculus argenteus* (Guichenot) Fauna och Flora, Uppsala, 1907, **2**, 208–211. 2 pls. 1907.5

—— Tonfisk fångad i Bohuslän [Tunny caught in Bohuslän] Fauna och Flora, Uppsala, 1907, **2**, 180. 1907.6

—— Tonfiskar och makrillar [Tunnies and mackerels] Svensk Fiskeritidskr., 1907, **16**, 129–134. pl. — Fauna och Flora, Uppsala, 1907, **2**, 197–201. pl. *Ibid.*, 1908, **3**, 100–102. 1907.7

—— En ny blind mal-fisk från Brasilien. Fauna och Flora, Uppsala, 1908, **3**, 191–193. fig. 1908.1

—— Några för svenska faunan nya fiskar [Some fishes new to the fauna of Sweden] Fauna och Flora, Uppsala, 1908, **3**, 113–118. pls. & fig. 1908.2

—— Om några fynd i Litorina-lera i Norrköping. Ark. Zool., Stockholm, 1907, **4**, no. 22, 27. pl. — Fauna och Flora, Uppsala, 1908, **3**, 164–188. pl. 1908.3

—— Silfvertorsken vid Bohuskusten. Fauna och Flora, Uppsala, 1908, **3**, 107. 1908.4

—— En klumpfisk [*Mola mola* L.] Fauna och Flora, Uppsala, 1909, **4**, 49. 1909.1

—— Fisk som skyddsmedel mat malaria. Fauna och Flora, Uppsala, 1909, **4**, 155–156. 1909.2

—— En "Guldabborre." Fauna och Flora, Uppsala, 1910, **5**, 142. 1910.1

—— Fishes (In Wissenschaftliche Ergebnisse Schwedischen Zoologischen Expedition Kilimandjaro, vol. i, pt. 5, p. 1–8. Upsala, 1910) 1910.2

—— Svansens betydelse och användning hos ryggradsdjuren [Fishes] Fauna och Flora, Uppsala, 1910, **5**, 9–14. 4 figs. 1910.3

—— Fishes collected by the Swedish zoological expedition to British East Africa 1911. Handl. Svenska Vet. Akad., 1911, **47**, no. 6, 37–41. 1911.1

—— Klätterfiskarnas fortplantning. Fauna och Flora, Uppsala, 1911, **6**, 224. 1911.2

—— Kräldjur, groddjur och fiskar, insamlade af den svenska zoologiska expeditionen till Britiska Ost-Afrika. Fauna och Flora, Uppsala, 1911, **6**, 228–232. 1911.3

Fishes, p. 232.

—— Makrill fångad i Södermanlands skärgård. Fauna och Flora, Uppsala, 1911, **6**, 236–237. 1911.4

—— Ovanligt stor mört. Fauna och Flora, Uppsala, 1911, **6**, 235. 1911.5

—— Några ord om Sjöko-ckfiskarna. Fauna och Flora, Uppsala, 1912, **7**, 101–105. 1912.1

—— Sjökocken *Callionymus lyra* Linné. Svensk Fiskeritidskr., 1912, **21**, 65–70. pl. 1912.2

Lönnberg, *Josef.* Några iakttagelser sörande den kemiska sammansättningen af brosket nos stätrockan (*Raja batis* Linn.) Läkareförenings Förh., Upsala, 1884, **24**. 1884.1

Löns, *Hermann* [1866–1914] Bitte, die Wirbeltiere Hannovers betreffend. 50–54. Jahresber. Nat. Hist. Ges. Hannover, 1905, 247–264. 1905.1

—— Beiträge zur Landesfauna. IV. Hannovers Süsswasserfische. Jahrb. Prov. Mus. Hannover, 1906–1907, 88–94. Also separate; Hannover, 1907. 1907.1

Die Literatur, p. 89–90.

—— Die Wirbeltiere der Lüneburger Heide [Fische] Jahresh. Nat. Hist. Ver. Lüneburg, 1907, no. 17, 77–123. 1907.2

—— Einbürgerungen von Wirbeltieren. 55–57. Jahresber. Nat. Hist. Ges. Hannover, 1908, 128–133. 1908.1

—— Wo die Oder rauscht (In Mein grünes Buch: Tageschilderungen. 3. ed. Hannover, 1908) 1908.2

Forelle, p. 49–55.

—— Am Forellenwasser; den Bach entlang (In Auf der Wildbahn: Tageschilderungen. Hannover, 1912) 1912.1

Forelle, p. 49–56; 159–164.

Loeper, *M.*, & **Clerc,** *A.* *See* **Clerc & Loeper.**

Lörenthey, *Imre.* Beiträge zur Fauna und stratigraphischen Lage der pannonischen Schichten in der Umgebung des Balatonsees [Plattensee] in Resultate der wissenschaftlichen Untersuchungen des Balatonsees. Anhang Paläontologie IV. Wien, 1911. 215 p. 3 pls. 8°. 1911.1

Describes fossil otoliths and remains of Sciænidæ.

Loës, *A. de.* Essais de pisciculture en Suisse, lettre addressée à M. J. L. Soubeiran. Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 460–466. 1869.1

—— Pisciculture à Aigle (Suisse) Bull. Soc. Acclim. Paris, 1870, 2. sér. **7**, 146–149. 1870.1

—— Mémoire concernant la pisciculture de Châlex-à-Aigle (canton de Vaud) Suisse. Intern. Fischerei-Ausstell. Berlin, 1880 (Schweiz. Katalog), 53–55. 1880.1

Löschner, *Hans.* Fischwege in Stauanlagen. Leitmomente für ihre zweckmässige Anordnung. Graz, 1908. 15 p. fig. 8°. 1908.1

Löw, *Immanuel.* Aramäische Fischnamen (In Orientalische Studien, Theodor Nöldeke zum siebenzigsten Geburtstag gewidmet, etc., p. 549–570. Leipzig, 1906) 1906.1

Loew, *Oscar* (*translator*) On the scientific investigation of the Baltic sea and the German ocean, by G. Karsten. Rept. U. S. Fish Comm. 1878 (1880), **6**, 283–294. 1880.1

Loewe, *Fr.* Ueber Neu- und Rückbildung in Ovarium vom Maifisch (*Clupea alosa*) Arch. Mikrosk. Anat., 1896, **63**, 313–342. 4 pls. 1896.1

Loewenthal, *N.* Beitrag zur Kenntniss der Körnerzellen des Neunauges. Anat. Anz., 1904, **25**, 81–94. 12 figs. 1904.1

—— Contribution à l'étude des globules blancs du sang éosinophiles chez les animaux vertébrés. Journ. Anat. Physiol., Paris, 1909, 45. année, 97–121. pl. 1909.1

Loewy, —— Beiträge zur Atmung der Fische [Sammelreferat] Med. Klinik, 1909, 5. Jahrg., 103. 1909.1

Lofting, *Johan Christian Lund Levinsen.* Beretning fra cand. mag. Levinsen angaaende fiskeriforholdene i Gudenaa og Randers. Fjord. Fiskeri Beretning 1898–99 (1900), 265–286. 1900.1

Logan, *George.* Further notice of the herring and sprat fishery of the firth of Forth. Proc. Roy. Phys. Soc. Edinb. 1859–62 (1863), **2**, 288–290. 1863.1

Logan, *G.*

—— Report of the committee on marine zoology, with a notice of the sprat fishing in the firth of Forth. Proc. Roy. Phys. Soc. Edinb. 1859–62 (1863), **2**. 1863.2

Logan, *R. F.* Notices of the saury pike (*Scomberesox saurus* Penn.) taken in the firth of Forth. Proc. Roy. Phys. Soc. Edinb. 1854–58 (1858), **1**, 49–51. 1858.1

Logeman, *Willem Martinus* [1821 —] *Malapterurus electricus,* stroomrigting bij zijne ontladingen. Album Natuur, 1863 (Wetensch. bijblad), 29–30. 1863.1

—— De elektrische visschen onderzocht met behulp van den telephon. Album Natuur, 1879 (Wetensch. bijblad), 43. 1879.1

Lo Giudice, *P.* Sulla struttura delle branchie nei pesci. Nota preliminare. Rivist. Mens. Pesca, Pavia, 1910, **12** (n. s. **5**), 264–268. 1910.1

—— Ancora sulle diverse razze locali di acciughe (*Engraulis encrasicholus* Cuv.) Replica al Dr. Fage. Rivist. Mens. Pesca, Pavia, 1911, **13** (n. s. **6**), 226–236. 1911.1

—— Sulle diverse razze locali o famiglie (Heincke) di acciughe (*Engraulis encrasicholus* Cuv.) Rivist. Mens. Pesca, Pavia, 1911, **13** (n. s. **6**), 83–87. 1911.2

Lohberger, *Johannes.* Ueber zwei riesige Embryonen von Lamna. Abh. Bayer. Akad. Wiss., München, 1910, Suppl.-Bd. **4**, no. 2, 1–44. 5 pls. 1910.1

Lohest, *Maximin.* La découverte de plusieurs espèces de débris de poissons, trouvées dans les schistes de Frasnes et dans les psammites du Condroz. Ann. Soc. Géol. Belgique, 1881, **9**, cxxiii–cxxiv. 1881.1

Asterolepis, Ptyctodus, Dipterus and shark remains.

—— Recherches sur les poissons des terrains paléozoiques de Belgique. Poissons de l'ampélite alunifère, des genres Campodus, Petrodus et Xystracanthus. Ann. Soc. Géol. Belgique, 1883, **11**, 295–325. 2 pls. 1883.1

—— Découverte du plus ancien amphibien connu et de quelques fossiles remarquables dans le Famennien supérieur de Modave. Ann. Soc. Géol. Belgique, 1888, **15**, cxx–cxxvii. 1888.1

Remains of ostracoderms, ganoids and Dipterus are indicated, p. cxxii.

—— Recherches sur les poissons des terrains paléozoiques de Belgique. Poissons des psammites du Condroz, Famennien supérieur. Ann. Soc. Géol. Belgique, 1888, **15**, 112–203. 11 pls. 1888.2

Dendrodus, Holoptychius, Phyllolepis, Pentagonolepis. Migration des poissons aux époques paléozoiques, p. 192–195.

—— De la découverte d'espèces américaines de poissons fossiles dans le Dévonien supérieur de Belgique. Ann. Soc. Géol. Belgique, 1890, **16**, lvii–lix. 1890.1

Dinichthys, Dipterus, Holoptychius, Bothriolepis.

Lohmann, *Hans.* Ueber das Fischen mit Netzen aus Müllergaze Nr. 20, zu dem Zwecke quantitativer Untersuchungen des Auftriebs. Wiss. Meeresuntersuch. Kiel (*Abt. Kiel*), 1901, n. s. **5**, 45–66. 1901.1

—— Untersuchungen über die Tier- und Pflanzenwelt, sowie über die Bodensedimente des Nordatlantischen Oceans zwischen dem 38. und 50. Grade nördliche Breite. Sitzber. Preuss. Akad. Wiss., Berlin, 1903, 26. 1903.1

Lohmeyer, *Carl F.* [Vorläufiges] Verzeichnis der Fische, welche in den Gewässern Ostfrieslands vorkommen. 58. Jahresber. Naturf. Ges. Emden 1872 (1873), 9–10. 1873.1

—— Uebersicht der Fische des untern Ems-, Weser- und Elbgebiets. Abh. Nat. Ver. Bremen, 1907, **19**, 149–180. 1907.1

Lohr, *Adolf.* Versuch einer Erklärung warum es in der Donau keine Aale gibt. Verh. Ver. Nat. Heilk. Presburg, 1902, **21**, 54–56. 1902.1

Loir, *A.* Note sur plusieurs cas d'empoisonnement produits par des sardines rouges. C. R. Mém. Soc. Biol. Paris, 1894, 10. sér. **1**, 141–143. 1894.1

Loisel, *G.* La culture des poissons de mer en Norvège et l'élevage des jeunes morues aux îles Kvitingsö. Bull. Soc. Acclim. Paris, 1913, **60**, 451–453. 1913.1

Loman, *Jan Cornelis Christiaan.* Het voorkomen van *Petromyzon planeri* Blch. in Nederland. Tijdschr. Nederl. Dierk. Ver., 1900, 2. ser. **6**, lviii–lix. 1900.1

—— Parasiten van *Petromyzon planeri.* Tijdschr. Nederl. Dierk. Ver., 1909, 2. ser. **11**, 62. 1909.1

—— De copulatie van *Petromyzon planeri.* Tijdschr. Nederl. Dierk. Ver., 1910, 2. ser. **12**, vii. 1910.1

—— Ueber die Naturgeschichte des Bachneunauges *Lampetra planeri* (Bloch) Zool. Jahrb. (Suppl.), 1912, **15**, pt. 1, 243–270. pl. 1912.1

Lomas, *Joseph*. Investigation of the fauna and flora of the Trias of the British isles. — Second report of the committee. Rept. Brit. Assoc. Adv. Sci., 74. meet., 1904, 275–288. 4 pls. & 10 figs. 1904.1

Hybodus, Acrodus, Sagenodus, Palæoniscidæ, Semionotus, Dipteronotus, coprolites.

Lombard, *Guy Davenport*. Some notes on the anatomy of the thyroid gland in Selachii. A preliminary communication. Biol. Bull., Woods Hole, 1909, **18**, 39–41. 1909.1

Lombardo, *A. C.* La morfologia della colonna vertebrale dei Clupeidi. Nat. Sicil., 1884, **3**, 336–339. 2 pls. *Ibid.*, 1885, **4**, 37–40. 1884.1

Lombroso, *Ugo*. Ueber Einige besondere Regulationsvorgänge der Atmungsbewegungen bei Knochenfischen. Arch. Gesam. Physiol., 1907, **119**, 1–28. 11 figs. 1907.1

—— Sull' origine dei movimenti respiratori dei pesci. L'importanza dell' ambiente fisico. Rendic. Accad. Lincei, Roma, 1908, 5. ser. **17**, 867–875. 5 figs. 1908.1

—— Ueber den Ursprung der Atmungsbewegungen der Fische. Die Bedeutung des physikalischen Mediums. Arch. Gesam. Physiol., 1908, **125**, 163–172. 5 figs. 1908.2

Lomnicki, *Aloys Maryjan*. Ryby zebrane w okolicy Słotwiny, Stanisławowa i Halicza [Fishes collected in the neighbourhood of Solotwina, Stanislawow and Halicz] Spraw. Kom. Fizyogr. Kraków, 1878, 8. ser. **12**, 50–60. 1878.1

—— Materyały do mioceńskiej fauny Lwowa i najblizszej okolicy [Materialen zur miocänen Fauna von Lemberg und seiner nächsten Umgebung] Kosmos Lwów Roczn., 1897, **22**, 18–37. 1897.1

Long, *J. A.* The reaction of eyeless (blinded) fish to light. Science, 1904, 2. ser. **19**, 248. 1904.1

Long, *William*. Pacific trout [*Salmo iridea*] in eastern waters. Forest & Stream, 1879, **12**, 288. 1879.1

Longchamps, (*Baron*) *de Selys*. Repopulation of the water courses in Belgium. Rept. U. S. Fish Comm. 1881 (1884), **9**, 815–823. 1884.1

Long Cork [*pseudon.*] The carp, and how to catch him. Fish. Gazette, 1878, n. s. **2**, 195–196. 1878.1

Longman, *H. A.* Note on *Portheus australis* A. S. Woodward. Mem. Queensland Mus., 1913, **2**, 94–95. 1913.1

Longmuir, —— On the restoration of Pterichthys in "The testimony of the rocks" [by Hugh Miller] Rept. Brit. Assoc. Adv. Sci., 29. meet., 1859 (1860), 263. 1860.1

Longuéty, *L.* Pêche française. Salaison du hareng à bord et en atelier. Boulogne-sur-Mer, 1860. 8°. 1860.1

—— Rapport sur l'exposition d'appareils de pêche à Amsterdam fait par L. Longuéty ainé. Paris, 1862. 8°. 1862.1

—— Notes sur la législation de la pêche du hareng et sur la préparation essentielle que doit subir ce poisson. Boulogne-sur-Mer, 1868. 8°. 1868.1

—— La pêche du hareng, son importance du port de Boulogne-sur-Mer en 1878. Boulogne-sur-Mer, 1878. pl. 8°. 1878.1

—— La pêche maritime en France et en Angleterre. Boulogne-sur-Mer, 1878. 21 p. 8°. 1878.2

—— Notes sur la législation de la pêche du hareng et sur la préparation essentielle que doit subir ce poisson; extraits d'un rapport sur l'exposition de pêche à la Haye, en juillet 1877. Boulogne-sur-Mer, 1879. 18 p. 8°. 1879.1

Longuéty, *L.*, & **Lebeau,** *J.* *See* **Lebeau & Longuéty.**

Loomis, *Frederic Brewster* [1873 —] Die Anatomie und die Verwandtschaft der Ganoid- und Knochen-Fische aus der Kreide-Formation von Kansas, U. S. A. Palæontographica, 1900, **46**, 213–283. 9 pls. & 13 figs. 1900.1

Loomis, *Watts T.* A landlocked salmon caught in Erie canal. Bull. U. S. Fish Comm., 1884, **4**, 288. 1884.1

Loosjes, *P.* Leerzame zamenspraken over eenige dieren, vogels, insecten en visschen. Amsterdam, 1769. 8°. 1769.1

Looss, *Arthur*. Ueber einige Distomen der Labriden des Triester Hafens. Centralbl. Bakteriol. Parasitenk. Infektionskr., Jena, 1901, **29**, 1. Abth., 398–405; 437–442. 1901.1

Loper, *Samuel Ward* [1835–1910] A new fossil fish, *Ischypterus newberryi*, sp. nov. [from the Trias of the Connecticut valley] Pop. Sci. News, Mar. 18, 1893. — Pop. Science, May, 1899, 98. 1893.1

Lopez, *C.* Cenni sulla fauna dell' Abruzzo Teramano. Teramo, 1893. 60 p. 8°. 1893.1

Lopez, *José Alonso.* *See* **Alonso Lopez,** *José.*

Lorang, *Ch. von.* *Amiurus nebulosus*, der Zwergwels. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 842. fig. 1912.1

—— *Glaridichthys* (*Girardinus*) *januarius* var.? und seine Zucht. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 589. fig. 1912.2

—— *Danio rerio* und seine Zucht. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 183–184. fig. 1913.1

—— *Umbra krameri*, der ungarische Hundsfisch. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 26. fig. 1913.2

Lorck, *C. G.* Fauna Prussica; Abbildungen der Säugethiere, Vögel, Amphibien und Fische Preussens. 3 vols. Königsberg, 1834–35. 52 pls. 4°. 1834.1

Lord, *Henry W.* The fish of Devils lake, Dakota. Bull. U. S. Fish Comm., 1884, **4**, 351. 1884.1

Lord, *John Keast* [1817–1872] The naturalist in Vancouver island and British Columbia. 2 vols. London, 1866. illust. 8°. 1866.1

Appendix contains "List of specimens collected with descriptions of the fish," by A. Günther.

—— The end of odd fishes. Sci. Gossip 1866 (1867), 170–172. 1867.1

Aspredo, Silurus, Callichthys, Osphromenus.

—— More odd fishes. Sci. Gossip 1866 (1867), 99–101. 1867.2

Syngnathi and Hippocampus.

—— A new charr (*Fario lordii*) from British Columbia. Intell. Observ., 1867, **10**, 338–347. 1867.3

—— Odd fishes. Sci. Gossip 1866 (1867), 50–52. 1867.4

Silurus, Syngnathus, Lophobranchia, Nerophis.

—— The viviparous fish (*Ditrema argenteum*) Sci. Gossip 1866 (1867), 241–243. fig. 1867.5

—— A cruise in a whitebait boat. Canad. Naturalist, 1870, n. s. **5**, 463–465. 1870.1

From "The Leisure Hour." *Clupea alba* is regarded as a distinct species, not as a young herring.

Lord, *William Barry.* Sea-fish and how to catch them. London, 1862. viii, 52 p. 8°. 1862.1

—— The same. 2. ed. London, 1863. viii, 117 p. 8°. 1863.1

—— The flying-fish (*Exocœtus volitans*) Nature & Art, 1866, **1**, 173–177. figs. 1866.1

—— The mackerel. Nature & Art, 1866, **1**, 9–10. 1866.2

Lord, *W. Scott.* Weight of salmon caught in Restigouche river. Bull. U. S. Fish Comm. 1881 (1882), **1**, 274. 1882.1

Lorec, *Z.*, & **Wolski,** *T.* Nowy gatunek z rodzaju strzebla. Strzebla przekopowe (*Phoxinus dybowskii*, sp. nov.?) Sprawozd. Towarz. Nauk. Warszawskiego, 1910, **3**, 114–120. 1910.1

Lorent, *H.* Ueber den Mitteldarm von *Cobitis fossilis* Linn. Arch. Mikrosk. Anat., 1878, **15**, 429–442. pl. 1878.1

Lorentzen, *F.* Ein neuer seltener Gast der westlichen Ostsee: der Rotbarsch (*Sebastes marinus* L.) Prometheus, 1900, **11**, 652–653. 1900.1

—— Seltene Gäste der westlichen Ostsee. Heimat, Kiel, 1901, **11**, 183–184. 1901.1

Lorenz, *Josef Roman.* Die künstliche Fischzucht. Oester. Rev., 1867, **2**, 153–159. 1867.1

Lorenz, *O.* Ein Fischverderber aus dem Pflanzenreiche [*Bidnes cernua*] Oesterr.-ungar. Fischerei Zeitg., 1880, 27–28. 1880.1

Lorenz, *Paul.* Der Aal (*Anguilla vulgaris* Fleming) im Caumasee. Jahresber. Naturf. Ges. Graubündens, 1896, 2. ser. **39**, 81–95. 1896.1

—— Fischfauna des Kantons Graubünden. Schweiz. Fischerei Zeitg., 1896, **4**, 41–43. Also separate; Pfäffikon-Zürich, 1896. 2 p. 8°. 1896.2

—— Die Fische des Kantons Graubünden (Schweiz) Schweiz. Fischerei Zeitg., 1897, Beilage Bd. **2**, 1–80. — Jahresber. Naturf. Ges. Graubünden, 1898, **41**, 1–135. 6 pls. 1897.1

Lorenzen, *A.* Die Färoer. Natur, 1898, 47. Jahrg., 519–521; 529–533; 543–545; 567–570; 583–584. 1898.1
Die Fischerei, p. 556–557; 567–568.

Lorenzen, *F.* *See* **Lorentzen,** *F.*

Lorenzo, *G. de.* Francesco Bassani. Commemorazione letta nell' Accademia delle Scienze di Napoli. Rendic. Accad. Sci. Fis. Mat. Napoli, 1916, fasc. 5–6. 22 p. 1916.1
Pubblicazioni, p. 15–22.

Loreta, *G.* La zoologia nella bibbia secondo la volgata. Torino, 1901. 580 p. illust. 8°. 1901.1

Lori, *F. A.* Beiträge zur Fauna Niederbayerns. Die Fische in der Umgegend von Passau. 9. Jahresber. Naturhist. Ver. Passau 1869–70 (1871), 99–104. 1871.1

—— Fauna der Süsswasserfische von Mittel-Europa, nach Siebold. Passau, 1878. 8°. 1878.1

Loring, *Joseph G.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 49–50. 1873.1

Loring, *Mary G.* By the sea in Normandy. Scribners Monthly Mag., August, 1881. 1881.1
Describes the fishing village of Etretat.

Loring, *Thomas.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1887 (1889), **5**, 403. 1889.1

Loriol, *Perceval de,* & **Pictet,** *F. J.* *See* **Pictet & de Loriol.**

Lortet, *Louis* [1836 —] Le *Chromis pater-familias* du lac de Tibériade. La Nature, 1875, 81–82. figs. 1875.1

—— Sur un poisson du lac de Tibériade, le *Chromis pater-familias*, qui incube ses œufs dans la cavité buccale. C. R. Acad. Sci. Paris, 1875, **81**, 1196–1198. — Bull. Hebd. Assoc. Sci. France 1875–76 (1876), **17**, 231–233. 1875.2

—— Etudes zoologiques sur la faune du lac de Tibériade, suivies d'un aperçu sur la faune des lacs d'Antioche et de Homs. I. Poissons et reptiles du lac de Tibériade et de quelques autres parties de la Syrie. II. Ordre des Acanthoptérygiens pharyngognathes, famille des Chromidæ. III. Ordre des Physostomes, famille des Siluridæ. Arch. Mus. Hist. Nat. Lyon, 1883, **3**, 99–194. 13 pls. 1883.1

Lortet, *Louis,* & **Gaillard,** *C.* La faune momifiée de l'ancienne Egypte. Poissons. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1903, 928–948. 1903.1

—— La faune momifiée de l'ancienne Egypte. Arch. Mus. Hist. Nat. Lyon, 1903, **8**, Mém. no. 2, 1–205. 8 pls. & 82 figs. 1903.2
Poissons, p. 185–190, figs. 79–82.

—— La faune momifiée de l'ancienne Egypte et recherches anthropologiques. Ann. Mus. Hist. Nat. Lyon, 1909, **10**, Mém. no. 2, 1–336. 8 pls. & 223 figs. 1909.1
Poissons, p. 305–306.

Lortet, *Louis,* & **Hugounenq,** *L.* Recherches sur les poissons momifiés de l'ancienne Egypte. C. R. Acad. Sci. Paris, 1901, **133**, 613–616. 1901.1

Lory, *Charles.* Note sur un gisement de poissons fossiles dans les marnes aptiennes de Rosans (Hautes-Alpes) Bull. Soc. Géol. France, 1879, 3. sér. **7**, 677–678. 1879.1

Lothrop, *Alonzo Y.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 412. 1879.1

Lott, *Frans van der.* Kort bericht van den conger-aal, ofte drilvisch. Verh. Holl. Maatsch. Wet. Haarlem, 1762, **6**, pt. 2, 87–95. 1762.1

Lotz, *Theophil.* Ueber den Bau der Schwanzwirbelsäule der Salmoniden, Cyprinoiden, Percoiden und Cataphracten. Zeitschr. Wiss. Zool., 1864, **14**, 81–106. 4 pls. & 2 figs. 1864.1

Loup, ——, & **Audigé,** *J.* *See* **Audigé & Loup.**

Lovejoy, *John F.* Are sharks viviparous? Scient. American, 1880, **43**, 295. 1880.1

Lovejoy, *Samuel.* Fish on the farm: what species to select. Trans. Amer. Fisheries Soc. 1903 (1904), 116–117. 1904.1

—— What I have seen of black bass. Trans. Amer. Fisheries Soc. 1904 (1905), 170. 1905.1

Lovén, *Sven Ludwig* [1809–1895] Om fiskars, amphibiers och foglars respiration. Lund, 1830. 8°. 1830.1

Lovetsky, *A.* Sur les espèces du genre esturgeon, appartenant aux eaux de l'empire Russe. Bull. Sci. Nat. (Férussac), 1830, **23**, 131–134. — Notizen (Froriep), **30**, 99–101. 1830.1

—— Diagnosis piscium ad genus Acipenserinum pertinentium, præprimis eorum qui habitant in aquis Imperii Rossici. Nouv. Mém. Soc. Naturl. Moscou, 1834, **3**, 253–264. 1834.1

Lovisato, *Domenico* [1842 —] Notizia sopra la ittiofauna sarda. Rendic. Accad. Lincei, Roma, 1896, 5. ser. **5**, 75–79. 1896.1

Low, (*Rev.*) *George* [1747–1795] Fauna Orcadensis; or, The natural history of the quadrupeds, birds, reptiles and fishes of Orkney and Shetland, from a manuscript in the possession of Wm. Elford Leach. Edinburgh, 1813. 230 p. 4°. 1813.1

Fishes, p. 157–230.

Low, (*Sir*) *Hugh* [1824–1905] Sarawak; its inhabitants and productions; being notes during a residence in that country. London, 1848. xxiv, 716 p. 8°. 1848.1

Fish and fishing establishments, p. 88–89; 311. List of fish of Borneo, p. 412–413.

Low, *W. F.* Report of operations at the Havre de Grace shad-hatching station during part of the season of 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1043–1044. 1885.1

Lowe, *E. Ernest.* "Fox-shark" or "thrasher" (*Alopecias vulpes*) in the English channel. Nature, 1902, **66**, 272. 1902.1

Lowe, *Harford J.* On a fossil arthrodiran fish, *Homosteus milleri*, from the Caithness flagstones, found in a Torquay pavement. Journ. Torquay Nat. Hist. Soc., 1916, **2**, 65. pl. & figs. 1916.1

Description of the fossil, by A. S. Woodward, p. 65–69.

Lowe, *John.* Fauna and flora of Norfolk, 1874–99. 1874.1

Fishes: a list of the fishes known to occur in the Norfolk waters. Trans. Norfolk & Norwich Nat. Soc., 1874, **1**, 21–56.
Additions. *Ibid.*, **3**, 677–682.
Additions (third list) *Ibid.*, **4**, 634–642.
Additions (fourth list) *Ibid.*, **6**, 495–500.

—— Fishes (In Victoria history of county Norfolk, vol. i, p. 200–216. London, 1901) 1901.1

Lowe, *Richard Thomas* [1802–1874] Characters of a new genus Leirus, and of several new species of fishes from Madeira [*Serranus marginatus, Beryx splendens, Rhombus maderensis, Crenilabrus trutta, Centrina nigra,* etc.] Proc. Zool. Soc. London, 1833, **1**, 142–144. 1833.1

—— [Description of a new genus of acanthopterygian fishes, *Alepisaurus ferox*] Abstracts in Proc. Zool. Soc. London, 1833, **1**, 104. — Notizen (Froriep), **38**, 330. — Isis (Oken), 1836, 395–396. *Ibid.*, 1837, 274–275. 1833.2

—— Additional observations on *Alepisaurus ferox.* Trans. Zool. Soc. London, 1835, **1**, 395–400. pl. 1835.1

—— Description of a new genus of acanthopterygian fishes [*Alepisaurus ferox*] Trans. Zool. Soc. London, 1835, **1**, 123–128. 1835.2

—— Fische aus Madera. Isis (Oken), 1835, 556–558. 1835.3

—— Piscium Maderensium species quædam novæ, vel minus rite cognitæ breviter descriptæ [*Serranus fimbriatus, S. fuscus, Priacanthus fulgens, Polymixia nobilis, Leirus bennettii,* etc.] Trans. Cambridge Phil. Soc., 1838, **6**, 195–202. fig. Abstract in Rev. Zool., 1839, 25. 1838.1

—— A supplement to a synopsis of the fishes of Madeira. Proc. Zool. Soc. London, 1839, **7**, 76–92. — Ann. Mag. Nat. Hist., **4**, 405–424. — Trans. Zool. Soc. London, **3**, 1–20. — Isis (Oken), 1844, 759–764. 1839.1

—— Description of some new species of Madeiran fishes, with additional information relating to those already described [*Scorpæna ustulata, Nauclerus abbreviatus, Tetrapturus georgii, Asteroderma coryphænoides*] Proc. Zool. Soc. London, 1840, **8**, 36–39. *Ibid.*, 1843, p. 81. — Ann. Mag. Nat. Hist., **7**, 92–94. 1840.1

—— [Extract from a letter referring to supposed identity of *Ausonia cuvieri* Risso with *Luvarus imperialis* Rafinesque] Proc. Zool. Soc. London, 1840, **8**, 131. 1840.2

—— On new species of fishes from Madeira [*Scorpæna ustulata, Nauclerus abbreviatus,* etc.] Proc. Zool. Soc. London, 1840, **8**, 36–39. — Ann. Mag. Nat. Hist., **7**, 92–94. 1840.3

—— Synopsis of the fishes of Madeira; with the principal synonyms, Portuguese names, and characters of the new genera and species. Trans. Zool. Soc. London, 1841, **2**, 173–200. Notice in Proc. Zool. Soc. London, **5**, 37–38. *Ibid.*, **7**, 76. 1841.1

—— A history of the fishes of Madeira; with original figures from nature of all the species, by C. E. C. Norton and M. Young. London, 1843–60. 196 p. 27 pls. 8°. 1843.1

The first three parts of this work were published in 1843, the fourth in 1844, and the fifth in 1860. A glossary of vernacular names is included.

—— Notices of fishes newly observed or discovered in Madeira during the years 1840, 1841, and 1842 [*Seriola gracilis, Brama longipinnis, Taractes asper, Pteraclis papilio*] Proc. Zool. Soc. London, 1843, **11**, 81–95. — Ann. Mag. Nat. Hist., 1844, **13**, 390–403. 1843.2

—— On a new genus of the family Lophiidæ (les Pectorales Pediculées, Cuv.) discovered in Madeira. Proc. Zool. Soc. London, 1846, **14**, 81–84. — Trans. Zool. Soc. London, **3**, 339–344. pl. — Ann. Mag. Nat. Hist., 1846, **18**, 416–418. 1846.1

—— Supplement to a synopsis of the fishes of Madeira. Trans. Zool. Soc. London, 1849, **3**, 1–20. 1849.1

—— An account of fishes discovered or observed in Madeira since the year 1842. Proc. Zool. Soc. London, 1850, **18**, 247–253. 1850.1

—— An account of fishes discovered or observed in Madeira since the year 1842. Ann. Mag. Nat. Hist., London, 1852, 2. ser. **10**, 49–55. 1852.1

Species are enumerated of the following-named genera: Zeus, Argyropelecus, Temnodon, Scomber, Auxis, Pelamys, Trachypterus, Labrus, Chaunax, Phænodon, Scopelus, Metopias, Phycis, Echeneis, Leptorhynchus, Monacanthus, Alopias and Centrophorus.

—— Description d'un nouveau genre de poisson de la famille des murénoïdes (*Belonopsis leuchtenbergii*), avec remarques par M. Brandt. Mém. Acad. Sci. St. Pétersb., 1854, **7**, 169–176. pl. 1854.1

Lowe, *Richard Thomas,* & **Brandt,** *J. F. See* **Brandt** & **Lowe.**

Lowetsky, *A. See* **Lovetsky,** *A.*

Lowne, *Benjamin Thompson.* Catalogue of the teratological series in the Museum of the Royal College of Surgeons, England. London, 1893. 1893.1

Lubach, *D.* De europeesche meerval [*Silurus glanis*] Album Natuur, 1852 (Wetensch. bijblad), 209–213. fig. 1852.1

—— Geluidgevende visschen. Album Natuur, 1859 (Wetensch. bijblad), 25. 1859.1

—— Over de elektrische visschen. Album Natuur, 1859 (Wetensch. bijblad), 71–72. 1859.2

—— Phosphoresceerende stof van den rog [Raja] Album Natuur, 1861 (Wetensch. bijblad), 12. 1861.1

—— Muzikale visschen in Zuid-Amerika. Album Natuur, 1862 (Wetensch. bijblad), 22–23. 1862.1

—— De meerval als Nederlandsche visch. Album Natuur, 1864 (Wetensch. bijblad), 56. 1864.1

—— Verplaatsing der oogen bij de platvisschen [Pleuronectidæ] Album Natuur, 1864 (Wetensch. bijblad), 71–72. 1864.2

—— *Anabas scandens.* Album Natuur, 1864 (Wetensch. bijblad), 46. 1864.3

—— Een nieuw zeedier. Album Natuur, 1864 (Wetensch. bijblad), 37–38. 1864.4

—— Metamorphosen van sommige visschen [*Zeus faber*] Album Natuur, 1865 (Wetensch. bijblad), 25–26. 1865.1

—— Het zien van visschen en amphibiën. Album Natuur, 1866 (Wetensch. bijblad), 84–85. 1866.1

—— Levendbarende visschen. Album Natuur, 1866 (Wetensch. bijblad), 40. 1866.2

—— Bouw van het hart der Gadoideën. Album Natuur, 1867 (Wetensch. bijblad), 25. 1867.1

—— Wederherstelling van de vinnen van visschen. Album Natuur, 1869 (Wetensch. bijblad), 39–40. 1869.1

—— Uitwendige kieuwen bij visschen. Album Natuur, 1870 (Wetensch. bijblad), 4. 1870.1

—— Zamenstel van de chorda dorsalis bij *Amphioxus lanceolatus.* Album Natuur, 1870 (Wetensch. bijblad), 54. 1870.2

—— Geluid voortgebracht door eenige visschen. Album Natuur, 1872 (Wetensch. bijblad), 70–71. 1872.1

—— Gedaanteverwisseling van visschen [*Polyacanthus viridi-auratus*] Album Natuur, 1873 (Wetensch. bijblad), 7. 1873.1

Lubach, *D.*

—— Over den Leptocephalus. Album Natuur, 1873 (Wetensch. bijblad), 63. 1873.2

—— De aalvormige visschen [Murænidæ] Album Natuur, 1875 (Wetensch. bijblad), 23. 1875.1

—— Visschen uit artesische bronnen. Album Natuur, 1875 (Wetensch. bijblad), 7. 1875.2

—— *Chromis paterfamilias.* Album Natuur, 1876 (Wetensch. bijblad), 54–55. 1876.1

—— Maagvocht. Album Natuur, 1878 (Wetensch. bijblad), 62. 1878.1

—— Voortbrenging van elektriciteit door roggen. Album Natuur, 1880 (Wetensch. bijblad.), 8. 1880.1

Lubbock, *Montagu.* Fishes and their habits. Rept. Trans. Ealing Nat. Sci. Micr. Soc., 1899, **22**, 6–10. 1899.1

Lubbock, (*Rev.*) *Richard* [1759–1808] Observations on the fauna of Norfolk. Norwich, 1845. 8°. 1845.1

Lubosch, *Wilhelm.* Vergleichend-anatomische Untersuchungen über den Ursprung und die Phylogenese des N. accessorius Willisii. Arch. Micr. Anat., 1899, **54**, 514–602. pl. 1899.1

—— Die erste Anlage des Geruchsorgans bei Ammocœtes und ihre Beziehungen zum Neuroporus. Morphol. Jahrb., 1901, **29**, 402–414. pl. & figs. 1901.1

—— Einige Mitteilungen über Vorkommen, Fang und Zucht der Neunaugen. Zeitschr. Fischerei, Berlin, 1902, **9**, 130–143. 1902.1

—— Ueber die Geschlechtsdifferenzierung bei Ammocœtes. Anat. Anz. (Verhandl. Anat. Gesell.), 1903, **23**, 66–74. 4 figs. 1903.1

—— Das Corpus luteum der Säugetiere und seine Beziehungen zu dem der Anamnier. Zur Abwehr. Anat. Anz., 1904, **25**, 404–416. 1904.1

—— Ueber den Bau und die Entwickelung des Geruchsorganes von Petromyzon. Anat. Anz., 1904, **25**, 67–79. 11 figs. 1904.2

—— Untersuchungen über die Morphologie des Neunaugeneies. Jena. Zeitschr. Naturw., 1904, **38**, 673–724. pl. & figs. 1904.3

—— Die Entwickelung und Metamorphose des Geruchsorganes von Petromyzon und seine Bedeutung für die vergleichende Anatomie des Geruchsorganes. Jena. Zeitschr. Naturw., 1905, **40**, 95–148. 2 pls. & 14 figs. 1905.1

—— Anpassungserscheinungen bei der Verkalkung des Selachierknorpels. Anat. Anz., 1909, **35**, 1–8. 8 figs. 1909.1

—— Besprechung einer neuen Theorie der Licht- und Farbenempfindung nebst einem Excurs über die stammesgeschichtliche Entstehung des Wirbeltierauges. Morphol. Jahrbuch, 1909, **39**, 146–153. 1909.2

—— Vergleichende anatomie der Sinnesorgane der Wirbeltiere. Leipzig, 1910. 106 p. illust. 8° (Aus Natur und Geistwelt, Bd. 282) 1910.1

Lucas, *A. H. S.* On some additions to the fish-fauna of Victoria. Proc. Roy. Soc. Victoria, 1890, 2. ser. **2**, 63. 1890.1

—— A systematic census of indigenous fish, hitherto recorded from Victorian waters. Proc. Roy. Soc. Victoria, 1890, 2. ser. **2**, 15–47. 1890.2

—— On the occurrence of certain fish in Victorian seas, with descriptions of some new species. Proc. Roy. Soc. Victoria, 1891, 2. ser. **3**, 8–14. pl. 1891.1

—— A new species of freshwater fish from lake Nigothoruk, mount Wellington, Victoria. Proc. Roy. Soc. Victoria, 1892, 2. ser. **4**, 27–28. 1892.1

—— A systematic census of indigenous fish hitherto recorded from Victorian waters. (In Illustrated Official Handbook of the Aquarium, p. 19–56. Melbourne, 1896, 19–56. figs.) 1896.1

—— On some facts in the geographical distribution of land and freshwater vertebrates in Victoria. Proc. Roy. Soc. Victoria, 1897, 2. ser. **9**, 34–53. 1897.1

Lucas, *Frederic Augustus* [1852 —] The Berlin fisheries exhibition. Scient. Amer., 1880, **43**, 119. fig. 1880.1

—— On *Carcharodon mortoni* Gibbes. Proc. Biol. Soc. Washington, 1892, **7**, 151–152. 1892.1

—— [Description of the seal-fish, *Therobromus callorhini*, sp. nov.] (In Jordan, D. S., & others. The fur-seals and fur-seal islands of the North Pacific ocean, p. 440–441. pl. Rept. Fur-seal Invest., 1896–97, pt. 3. Washington, 1899) 1899.1

Theragra is instituted, p. 486, as a distinct genus of Gadidæ, having for type the Alaskan pollack.

—— A new fossil cyprinoid, *Leuciscus turneri*, from the Miocene of Nevada. Proc. U. S. Nat. Mus., 1900, **23**, 333–334. pl. 1900.1

—— The restoration of extinct animals. Ann. Rept. Smithson. Instit., 1900, 479–492. 8 pls. & 2 figs. 1900.2

Reproduces a figure of Delabeche's restoration of some Jurassic ganoids and other fossil vertebrates.

—— Description of a new species of fossil fish from the Esmeralda formation [of Nevada] Ann. Rept. U. S. Geol. Surv., 1901, **21**, pt. 2, 223–224. pl. 1901.1

Describes *Leuciscus turneri.*

—— [Notice of] Barton W. Evermann's paper on "The American species of shad," at the 357th meeting of the Biological Society of Washington. Science, 1901, n. s. **15**, 1032. 1901.2

—— The osteology and immediate relations of the tile-fish, *Lopholatilus chamæleonticeps*. Bull. Bur. Fisheries, 1905, **24**, 81–86. 3 figs. 1905.1

—— Outline for an educational exhibit of fishes. Proc. 4. Intern. Fish. Congr., Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 1341–1351. 1910.1

—— On the status of sharks as maneaters (In Nichols, J. T., & Murphy, R. C. Long Island fauna. IV. The sharks) Brooklyn Mus. Sci. Bull., 1916, **3**, 25–28. 1916.1

Lucchesini, —— Sur la torpille. Journ. Physique (Rozier), 1783, **23**, 217. 1783.1

Luce, *Thomas R.* Occurrence of *Balistes capricus* Gmelin (leather-jacket or file-fish) at New Bedford, Mass. Bull. U. S. Fish Comm., 1883, **3**, 469. 1883.1

Luchau, *Ernst.* Vorläufige Mitteilung über die Magenverdauung einiger Fische. Centralbl. Med. Wiss., 1877, **15**, 497–498. 1877.1

—— Ueber die Magen- und Darmverdauung bei einigen Fischen. Inaug. Dissert. Königsberg, 1878. 8°. 1878.1

Luchsinger, *Balthasar,* & **Gysi,** *Edwin. See* **Gysi** & **Luchsinger.**

Ludwig, *Hubert Jacob* [1852 —] Formation de l'œuf dans les Plagiostomes. Arch. Zool. Expér. Gén., 1875, **4**, 15–16. 1875.1

—— Ueber die Myxosporidienkrankheit der Barben in der Mosel. Jahresber. Rheinisch. Fisch. Ver., 1888, 27–36. 1888.1

Ludwig, *Rudolph August Birminhold Sebastian* [1812–1880] Haifische im Meeresthon von Nierstein. Notizbl. Ver. Erdkunde Darmstadt, 1866, 3. ser., 5. Heft, 11. 1866.1

Lübbert, *H. O.* Heringsschwärme an der Westküste von Sylt. Mitt. Deutsch. Seefischerei Ver., 1904, **20**, 335–340. 1904.1

—— Die Entwicklung der deutschen Seefischerei. Ber. Senckenberg Nat. Ges., Frankfurt-a.-M., 1906, 82*–86*. 1906.1

—— Der Aalfang in der Lagune von Comacchio; Fangeinrichtungen und Verwertung des Fanges (In Henking, H. Der Aalfang in den Lagunen von Comacchio und Venedig. Ergebnisse einer Studienreise. No. 2. Mitt. Deutsch. Seefischerei Ver., 1908, **24**, 394–404. pl. 12 figs.) 1908.1

—— Neue Forschungsergebnisse über das Leben des Aals und deren Einfluss auf die Aalfischerei. Verh. Nat. Ver. Hamburg, 1908, 3. ser. **15**, xlix–lii. 1908.2

—— Versuche mit der Verpflanzung von englischer Aalbrut in deutsche Binnengewässer. Verh. Nat. Ver. Hamburg, 1910, 3. ser. **17**, lii–liv. 1910.1

—— Neue Grundlagen der Aalkultur in Deutschland. Atti Congresso Internaz. Pesca, Roma 1911 (1913), 231–241. 1913.1

Lübbert, *Otto.* Der Häring. Natur- und culturhistorische Skizze. Ausland, 1864, 37. Jahrg., 375–377; 396–397. 1864.1

Lücke, *Fr.* Altersbestimmung bei Fischen. Kosmos, Stuttgart, 1911, 8. Jahrg., 184–185. 1911.1

Lühder, *Wilhelm.* Ersticken der Fische in strengen Wintern. Mitth. Naturwiss. Ver. Neu-Vorpommern, Rügen, 1871, 3. Jahrg., 86. 1871.1

Luehe, —— Die Entwickelungsgeschichte des Aales. Schriften Physik.-oekon. Ges. Königsberg, 1897, 38. Jahrg., 70. 1897.1

Lühe, *Max.* Ueber Distomen aus der Gallenblase von Mittelmeerfischen. Zool. Anz., 1900, **23**, 504–509. 1900.1

—— Bemerkungen über die Cestoden aus *Centrolophus pompilus.* I. Zur Synonymie der Centrolophus-Cestoden. Centralbl. Bakteriol. Parasit. Infektion., Jena, 1902, **31**, 1. Abth., 629–637. 1902.1

—— *Urogonoporus armatus;* ein eigentümlicher Cestode aus Acanthias, mit anschliessenden Bemerkungen über die sogenannten Cestodarier. Arch. Parasitol., Paris, 1902, **5**, 209–250. pl. & fig. 1902.2

—— Die Laichstätte unserer Aale. Schrift. Phys.-oekon. Ges. Königsberg, 1908, 48. Jahrg., 88–91. 1908.1

—— Ueber einen grossen Welsfang. Schrift. Phys.-oekon. Ges. Königsberg, 1909, **49**, 387–388. 1909.1

—— Seestichling (*Gasterosteus spinachia* L.) Schrift. Phys.-oekon. Ges. Königsberg, 1911, 52. Jahrg., 215. 1911.1

—— Fänge von Welsen in Masuren. Schrift. Phys.-oekon. Ges. Königsberg, 1912, 53. Jahrg., 85–89. 1912.1

Lüneburg. Beiträge zur Naturkunde des Fürstenthums Lüneburg. Luneburg, 1861. 8°. 1861.1

Fische, p. 17. Not seen; title from Bosgoed's Bibliotheca Ichthyologica, 1874.

Lüning, —— Zur Naturgeschichte der Aale. Jahresheft. Naturw. Ver. Lüneburg, 1865, **1**, 68–69. 1865.1

Lütge, *Albert. Haplochilus panchax.* Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 95–96. 1908.1

Lütken, *Christian Frederik* [1827–1901] Nogle bemærkninger om næseborenes stilling hos de i gruppe med Ophisurus staaende slægter af aalefamilien. Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn, 1851, 1–21. — Archiv Naturgesch. (Wiegmann), **18**, pt. 1, 254–276. 1851.1

—— Om visse cymothoagtige krebsdyrs ophold i mundhulen hos forskjellige fiske. Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn, 1858, 172–179. 1858.1

—— Bemærkninger om *Liparus lineatus.* Zeitschr. Ges. Naturw., 1861, **17**, 154–159. Also separate, Kjøbenhavn, 1862. 8°. 1861.1

—— Nogle bemærkninger om *Liparis lineatus.* Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1860 (1861), 2. ser. **1**, 169–174. 1861.2

—— Anledning af Hr. Professor H. Krøyers kritik af mine bemærkninger om *Liparis lineatus.* Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1861 (1862), 243–266. pl. & fig. 1862.1

—— Om en ved Sevedöi Begyndelsen 1862 opdreven "Kæmpe-Klumpfisk" (*Mola nasus* Raf.) Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1864, 379–380. 1864.1

—— Ichthyologiske notiser. I. Om slægten Nauclerus og dens identitet med Naucrates. II. Om arterne af slægten Malthæa og særligt om *M. notata* (*truncata*). III. Om arterne af slægten Amphisile (Kl.) Cuv. IV. Bidrag til Danmarks fiskefauna. Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn, 1865, 205–223. 1865.1

—— Professor Kner's classification of the ganoids. Geol. Mag., 1868, **5**, 429–432. 1868.1

—— On *Xenacanthus* (*Orthacanthus*) *dechenii* Goldfuss. Geol. Mag., 1868, **1**, 376–380. 1868.2

A review of various papers by Rudolf Kner.

—— Om ganoidernes begrændsning og inddeling. Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1868 (1869), 1–82. figs. Abstracts in Neues Jahrb. Mineral., 1870, 594–603. — Arch. Sci. Phys. Nat., **40**, 283–296. — Ann. Mag. Nat. Hist., 1871, 4. ser. **7**, 329–539. 1869.1

—— Om ganoidernes begrændsning og inddeling, af . . . C. Lütken. — Prof. Kner "On the classification of the ganoids" considered by C. Lütken . . . Kjøbenhavn, 1869. 82 p. pl. illust. 8°. 1869.2

The first part is from the Vidensk. Meddel. Naturh. Foren. Kjøbenhavn 1868 (1869); the second is reprinted from the Geol. Mag., 1868, **1**.

—— Sur les limites et la classification des ganoïdes. Arch. Sci. Phys. Nat. Genève, 1871, n. s. **40**, 283–296. 1871.1

—— *Oneirodes eschrichtii* Ltk., en ny grønlandsk Tudsefisk. Overs. Dansk. Vid. Selsk. Kjøbenhavn, 1871, 56–74. pl. & figs. — Ann. Mag. Nat. Hist., 1872, 4. ser. **9**, 329–344. 1871.2

—— Elfterskrift til min afhandling "Om ganoidernes begraendsning og

Inddeling." Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1872 (1873), 79–84. 1873.1

—— *Malacocephalus lævis* Lowe ved danske kyst. Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1872 (1873), 1–8. 1873.2

—— Om hav-fiskeriernes udtømmelse. Tidsskr. Fiskeri, 1873, 7. Jahrg., 41–72. 1873.3

—— Ueber die Begrenzung und Eintheilung der Ganoïden. Palæontographica, 1873, **22**, 1–54. 1873.4

—— Ichthyographiske bidrag, 1874–1878. 1874.1

i. Nogle nye eller mindre fuldstændigt kjendte Pandsermaller, især fra det nordlige Sydamerika. Vid. Meddel., Kjøbenhavn 1873 (1874), 202–220. Résumé, *Ibid.* 1874 (1875), 26–27.

ii. Nye eller mindre vel kjendte malleformer fra forskjellige verdensdele.

iii. Nogle nye eller mindre fuldstændigt kjendte, mellem- eller sydamerikanske karpelax (Characiner). *Ibid.* 1874 (1875), 190–240. Résumé, 27–31.

iv. Om rundnæbede sværdfiske, særligt om *Histiophorus orientalis* Schl. *Ibid.* 1875 (1876), 1–21. Résumé, 1–4.

v. Museets sugefiske (Echeneidæ). *Ibid.* 1875 (1876), 26–43. Résumé, 4–5.

vi. Bidrag til flyvefiskenes (Exocœternes) diagnostik. (Foreløbigt uddrag). *Ibid.* 1876 (1877), 389–408. pl. Résumé, 99–114.

vii. Tillægsbemærkninger om sugefiske og sværdfiske. *Ibid.* 1877 (1878), 242–243.

—— Om hajslægten Rhinodon. Vid. Meddel. Naturhist. Foren. Kjøbenhavn 1873 (1874), 2. 1874.2

—— Om kjönsforskjellen i tandforholdet hos vore rokker, særligt hos skaden (*Raja batis* Linn.). Vid. Meddel. Kjøbenhavn 1873 (1874), 36–47. Résumé, *Ibid.*, 1–3. 1874.3

—— Siluridæ novæ Brasiliæ centralis a clarissimo J. Reinhardt in provincia Minasgeraës circa oppidulum Lagoa Santa, præcipue in flumine Rio das Velhas et affluentibus collectæ, secundum caracteres essentiales breviter descriptæ. Oversigt Dansk. Vid. Selsk., Kjøbenhavn, 1874, 29–36. Review in Journ. Zool. (Gervais), 1874, **3**, 512. 1874.4

—— Sur les différences dans la dentition que présentent, selon le sexe, les raies (Raja) qui habitent les côtes du Danemark. Journ. Zool. (Gervais), 1874, **3**, 318–321. — Arch. Zool. Expér. Gén., 1874, **3**, 21–23. 1874.5

—— Characinæ novæ Brasiliæ centralis a clarissimo J. Reinhardt in provincia Minas-Geraes circa oppidulum Lagoa Santa in lacu eiusdem nominis, flumine Rio das Velhas et rivulis affluentibus collectæ, secundum caracteres essentiales breviter descriptæ. Overs. Dansk. Vid. Forh., Kjøbenhavn 1874 (1875), 127–143. 1875.1

—— Velhas-flodens fiske et bitrag til Brasiliens ichthyologi. Overs. Dansk. Vid. Selsk. Skrifter, Kjøbenhavn, 1875, **13**, 123–254. 5 pls. — Also separate; Kjøbenhavn, 1875. 132 p. 4°. 5 pls. 1875.2

—— A revised catalogue of the fishes of Greenland (In Jones, T. Rupert. Manual of the natural history, geology . . . of Greenland and the neighboring regions, prepared for the use of the Arctic expedition of 1875. London, 1875, p. 115–122. 8°) 1875.3

—— Korte bidrag til nordisk ichthyographi, 1876–91. 1876.1

i. Foreløbige meddelelser om nordiske ulkefiske (Cottoidei) Vidensk. Meddel. Kjøbenhavn, 1876, 355–388. figs. Résumé, 72–98.

ii. *Notacanthus nasus* Bloch. (Otto Fabricius's Campylodon eller "Bugtetand") *Ibid.*, 1877 (1878), 145–153.

iii. Grønlands og Islands Lycoder; med bemærkninger om andre nordiske arter. *Ibid.*, 1879 (1880), 307–332.

iv. *Trachypterus arcticus* og *Gymnetrus banksii* (Grillii) *Ibid.*, 1880 (1881), 190–227. fig.

v. 1. Om nogle nordiske Havkvabbe- eller Motella-(Onos-) arter. 2. Om nogle især arktiske Gadus-arter. *Ibid.*, 1881 (1882), 228–256.

vi. En for Grønlandshavet ny Rokke-art (*Raja fyllæ*, n. sp.) *Ibid.*, 1887, 1–4. pl.

vii. Nogle sjældnere dybhavsfiske fra Davis- og Danmarks-Strædet, tagne af Kaptajn C. F. Wandel paa "Fyllas" Togt i 1889. *Ibid.*, 1891, 28–35. fig.

viii. Nogle nordiske Laxesild (Scopeliner) *Ibid.*, 1891, 203–233.

—— Sur les Histiophores à bec arrondi, en particulier l' *Histiophorus orientalis*. Journ. Zool. (Gervais), 1876, **5**, 60–63. pl. 1876.2

—— Contributions à la diagnose des poissons volants ou Exocètes. Journ. Zool. (Gervais), 1877, **6**, 107–127. 1877.1

—— Contributions à l'ichthyologie des mers du nord. Journ. Zool. (Gervais), 1877, **6**, 176–177. 1877.2

—— Fire højsøfiske, 1877. 1877.3

i. Sværdfiskene. Tidsskr. Pop. Fremdstilling Naturvidensk., 1877, 5. ser. **4**, 241–263.

ii. Lodsfisken og Sugefisken. *Ibid.*, 357–369.

iii. Flyvefiskene. *Ibid.*, 401–427.

—— To sjældnere pelagiske Berycider [*Melamphaës megalops*, n. sp., *Anoplogaster cornutus* (Val.)] Overs. Dansk. Vid. Selsk. Kjøbenhavn, 1877, 175–187. pl. 1877.4

Lütken, *C. F.*

—— Kæmpe-hajer og kæmpe-rokker. Tidsskr. Pop. Fremstilling Naturvidensk., 1879, **26**, 56–72. 1879.1

—— Contributions pour servir à l'histoire de deux genres de poissons de la famille des baudroies, Himantolophus et Ceratias, habitant les grandes profondeurs des mers arctiques. Arch. Zool. Expér. Gén. 1879 (1880), **8**, 23–26. 1880.1

—— Smaa bidrag til Selachiernes naturhistorie (Om vanskabte rokkeformer; om Havkalens forplantning; om brugdens tidligere forekomst ved Island og foregivne forekomst ved Grønland; samt om den mellemamerikanske ferskvands-haj) Vid. Meddel. Kjøbenhavn 1879 (1880), 45–68. 3 figs. 1880.2

—— Spolia Atlantica. Bidrag til kundskab om formforandringer hos fiske under deres væxt og udvikling, særligt hos nogle af Atlanterhavets Højsøfiske. Dansk. Vid. Selsk. Skrift. Kjøbenhavn, 1880, 5. ser. **12**, 409–613. 5 pls. & 25 figs. 1880.3

—— Til kundskab om to arktiske slægter af dybhavs-tudsefiske: Himantolophus og Ceratias. Dansk. Vid. Selsk. Skrift. Kjøbenhavn, 1880, 5. ser. **11**, 309–338. 2 pls. & 8 figs. Résumé en français, 339–348. 1880.4

—— Velhas-flodens fiske. Et bidrag til Brasiliens ichthyologi. Efter Professor J. Reinhardts indsamlinger og optegnelser. Dansk. Vid. Selsk. Skrift. Kjøbenhavn, 1880, 5. ser. **12**, 121–254. 5 pls. & 23 figs. 1880.5

—— Spolia Atlantica: contributions to the knowledge of the changes of form in fishes during their growth and development, especially in the pelagic fishes of the Atlantic. Ann. Mag. Nat. Hist., 1881, 5. ser. **7**, 1–14; 107–123. 1881.1

—— Nogle bemærkninger om vaagmæren (*Trachypterus arcticus*) og sildetusten (*Gymnetrus banksii*) Overs. Dansk. Vid. Selsk. Kjøbenhavn, 1882, 206–216. Résumé en français, 21–30. Abstract in Ann. Mag. Nat. Hist., 5. ser. **11**, 176–184. 1882.1

—— Et bidrag tel kundskab om Kara-Havets fiske (In Dijmphna-Togtets zoologisk-botaniske Udbytte. Kjøbenhavn, 1887. 8°) 1887.1

—— Fortsatte bidrag til kundskab om de arktiske dybhavs-tudsefiske, særligt slægten Himantolophus. Kjøbenhavn, 1887. 1887.2

—— Om en med stegophiler og trichomycterer beslægtet sydamerikansk mallefisk (*Acanthopoma annectens* Ltk., n. g. et sp.) Vid. Meddel. Kjøbenhavn, 1891, 53–60. 3 figs. 1891.1

—— Spolia Atlantica. Scopelini Musei zoologici Universitatis Hauniensis. Bidrag til kundskab om det aabne Havs laxesild eller Scopeliner; med et tillæg om en anden pelagisk fiskeslægt; avec résumé en français. Danske Vid. Selsk. Skrift. Kjøbenhavn, 1892, 6. ser. **7**, 220–297. 3 pls. 1892.1

—— En bemærkning i anledning af fangsten af en *Himantolophus reinhardti* i havet vest for Portugal. Vid. Meddel. Kjøbenhavn, 1894, 78–81. 1894.1

—— Den ostgrønlandske expedition, udført i aærene 1891–92 under ledelse of C. Ryder. Fisk. Medd. Grønland, 1896, **19**, 52–58. 1896.1

—— Det ichthyologiske udbytte. (In Den Danske Ingolf-Expedition. vol. ii, pt. 1. Kjøbenhavn, 1898. 39 p. 4 pls. & 2 figs. 4°) 1898.1

Lütken, *Christian Frederik,* **Reinhardt,** *J. T.*, **Schiödte,** *J. C.*, **Mörch,** *O. A. L.*, **Lange,** *J.*, & **Rink,** *H. See* **Reinhardt, Schiödte** & others.

Lütken, *Christian Frederik,* & **Steenstrup,** *Japetus. See* **Steenstrup** & **Lütken.**

Lugger, *Otto,* & **Uhler,** *P. R. See* **Uhler** & **Lugger.**

Lugrin, *Fr.* La question de la pêche et le lac Léman. Bull. Soc. Centr. Aquicult. France, 1893, **5**, 57. Also separate; Paris, 1893. 5 p. 8°. 1893.1

Luijten, *W. A.* Opmerkingen betreffende de brochure van den Heer Fr. P. L. Pollen. Lekkerkerk, 1870. pls. fol. 1870.1

Lull, *Richard Swann* [1867 —] Volant adaptation in vertebrates. Amer. Naturalist, 1906, **40**, 537–564. 1906.1

—— The life of the Connecticut valley Trias. Amer. Jour. Sci., 1912, 4. ser. **33**, 397–423. 1912.1

Triassic fishes are referred to.

—— Triassic life of the Connecticut valley. Bull. Conn. Geol. & Nat. Hist. Surv., 1915, no. 24, 1–285. 12 pls. 1915.1

The aquatic vertebrates, p. 71–74. Cœlacanthidæ, Catopteridæ, Semionotidæ, Eugnathidæ.

Lumbert, *Henry.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 53. 1873.1

Lund, *C.* Neues vom Aal. Umschau, Frankfurt.-a.-M., 1906, **10**, 485–486. 1906.1

Lund, *C. F.* Beretning om fiskeriet i Tornby Tolddistrikt i aaret fra 1ste Januar til 31ste December, 1874. Nordisk Tidsskr. Fiskeri, 1876, n. s. 3. Jahrg., 61–62. 1876.1

Lund, *C. Fr.* Von Pflanzung der Fische in inländischen Seeën. Mém. Acad. Sci. Suède, 1761, **23**, 184. 1761.1

—— Voorplanting der visschen. Amsterdam, 1765. col. pl. 1765.1

Lund, *Oscar.* Investigation on the sprat in Norse waters. Aarsb. Norges Fiskerier, Bergen, 1910, 357–473. pl. & 2 charts. 1910.1

Lundberg, *Frederik.* Bidrag till öfversigt af Sveriges ichthyolog. literatur. Stockholm, 1872. xviii, 56 p. 8°. 1872.1

Lundberg, *Rudolf.* Königlich schwedischer Fischerei-Intendant. Die Fischereischule in Norrnäs. Circul. Deutsch. Fischerei Ver., 1879, no. 4, 155–156. 1879.1

—— Die Ostsee- und Süsswasserfischereien. Intern. Fischerei-Ausstell. Berlin, 1880 (Schwed. Katalog), 3–76. 1880.1

—— The fisheries of Sweden. Rept. U. S. Fish Comm. 1884 (1886), **12**, 363–398. pl. 1886.1

—— Om Svenska insjöfiskarnas utbredning. Meddel. K. Landtbruksksyr., Stockholm, 1899, no. 58, 1–87. 3 pls. & 4 maps. 1899.1

—— On the larval stadium of some salmonoid fishes: notes from the station of pisciculture and freshwater biology at Finspong [Text in Swedish] Meddel. Landtbruksksyr., Stockholm, 1901, pt. 2, 315–324. pl. 1901.1

—— Some notes on the causes of the distribution of the freshwater fishes [Text in Swedish] Svensk Fisk. Tidskr., Stockholm, 1901, **10**, 163–169. 1901.2

Lundborg, *Herman.* Die Entwicklung der Hypophysis und des Saccus vasculosus bei Knochenfischen und Amphibien. Zool. Jahrb., 1894, **7**, 667–687. 2 pls. & 4 figs. 1894.1

—— Studien über die Betheiligung des Ektoderms an der Bildung des Mesenchyms bei den niederen Vertebraten. Morphol. Jahrb., 1899, **27**, 242–262. 2 pls. & 6 figs. 1899.1

Lundén, *Michael.* Kårtta anmärkningar om Wesilax socken. Abo Tidn., 1797, no. 23–30. 1797.1

Lunel, *Godefroy* [1814–1891] Révision du genre castagnole (Brama) et description d'une espèce nouvelle, *Brama saussurii.* Mém. Soc. Phys. Genève, 1865, **18**, 165–196. 2 pls. 1865.1

—— Note sur la blennie alpestre de M. Blanchard. Revue Mag. Zool., 1870, 2. sér. **22**, 1–14. figs. 1870.1

—— Histoire naturelle des poissons du bassin du Léman. Assoc. Zool. Léman, 1874. 210 p. Abstracts in Arch. Sci. Phys. Nat. Genève, 1874, n. s. **49**, 360–364. — Journ. Zool. (Gervais), 1874, **3**, 228–230. 1874.1

—— Propagation et mœurs de la tanche [*Tinca vulgaris*] Journ. Zool. (Gervais), 1874, **3**, 372–378. 1874.2

—— Description d'une nouvelle espèce de trygonide appartenant au genre Pteroplatea Müller et Henle. Mém. Soc. Phys. Hist. Nat. Genève, 1878, **26**, pt. 2, 421–426. pl. 1878.1

—— Quelques observations à propos de la migration des carpes. Arch. Sci. Phys. Nat., 1878, **64**, 350–352. 1878.2

—— [Un individu de la loche franche, *Cobitis barcatula* Linn., présentant un cas de développement extraordinaire des ovaires] Archiv. Sci. Phys. Nat. Genève, C. R. 63. sess. Soc. Helvét. 56–58. 1880.1

—— Parasites et vers intestinaux des poissons du Léman. Bull. Soc. Vaud. Sci. Nat., Lausanne, 1880, 2. sér. **16**, 168–169. 1880.2

—— Liste de quelques espèces de poissons, nouvelles pour la faune de l'île Maurice. Mém. Soc. Phys. Genève, 1881, **27**, 266–303. pl. 1881.1

——Mélanges ichthyologiques. Mém. Soc. Phys. Genève, 1881, **27**, 267–303. pl. 1881.2

—— Observations sur quelques Gastérostéides et sur la variabilité des carac-

Lunel, *G.*
tères distinctifs attribués aux poissons de cette famille. Mém. Soc. Sci. Nat. Saone-et-Loire, 1882, **4**, 147–168. 1882.1

—— Sur un cas de commensalisme d'un Caranx et d'une Crambessa. Arch. Sci. Phys. Nat., 1883, **10**, 271–281. — Rec. Zool. Suisse, 1, 65–74. pl. — Ann. Mag. Nat. Hist., 5. ser. **12**, 264–270. 1883.1

Lupi, *Alessandro.* Fauna miocenica presso Tagliacozza. Boll. Soc. Geol. Ital., 1904, **23**, xxviii–xxix. 1904.1

Contains mention of Miocene fish-remains.

Lupo, *Michele.* Sopra una nuova specie di Ichthyonema. Atti Accad. Sci. Torino, 1898, **33**, 823–826. pl. 1898.1

Lupton, *Frederick.* Notes on the rudd [*Leuciscus erythrophthalmus*] Fish. Gazette, 1878, n. s. **2**, 87–88. 1878.1

Lupton, *Nathan Thomas.* Curious habit of a catfish. Forest & Stream, 1877, **8**, 96. 1877.1

—— On the breeding habits of the sea-catfish (*Abiopsis milberti?*) Proc. U. S. Nat. Mus., 1879, **1**, 278–279. In Smithson. Misc. Coll. 1879 (1880), **19**, art. 1. 1880.1

Lupu, *Hélène.* Note sur le *Cobitis fossilis.* Ann. Scient. Univ. Jassy, 1907, **4**, 165–172. 3 figs. 1907.1

—— Régénération de l'épithélium intestinal du *Cobitis fossilis.* Arch. Zool. Expér., 1908, 4. sér. **9**, 417–428. pl. 1908.1

—— Nouvelles contributions à l'étude de la respiration intestinale du *Cobitis fossilis.* Ann. Scient. Univ. Jassy, 1910, **6**, 302–309. 2 figs. 1910.1

—— Recherches histo-physiologiques sur l'intestin du *Cobitis fossilis.* Bull. Sect. Scient. Acad. Roumaine, 1913, **1**, 302–307. 1913.1

Lusk, *Amos.* Experience in trout raising. Forest & Stream, 1874, **3**, 260. 1874.1

Lussana, *F.*, & **Lemoigne,** *A.* Fisiologia dei centri nervosi encefalici. Padova, 1871. 1871.1

"Si tratta della anatomia e fisiologia sperimentale dei centri encefalici, nelle specie seguenti di pesci: trota, tinca, perca, carpione, temolo, vairone, anguilla, ghiozzo, razza, luccio, squalo, con tavole anatomiche e vivisezioni."

Luther, *Alexander Ferdinand.* Ueber *Bliccopsis erythrophthalmoides* Jäckel. Medd. Soc. Fauna Fenn., 1901, **27**, 12–15. fig. 1901.1

—— Notizen über die Fischfauna im Keitele-See und in einigen kleineren Gewässern seiner Umgebung [Text in Swedish] Fisk. Tidskr. Finland, Helsingfors, 1902, **11**, 80–87. 1902.1

—— *Abramidopsis buggenhagii* Bloch från Haapavesi. Medd. Soc. Fauna Flora Fenn., 1904, **31**, 31–32. 1904.1

—— Ueber *Triænophorus robustus* Olsson und *Henneguya zschokkei* Gurley als Parasiten von *Coregonus albula* aus dem See Sapsojärvi. Medd. Soc. Fauna Flora Fenn., 1908, **35**, 58–59. 1908.1

—— Beiträge zur Kenntniss von Muskulatur und Skelett des Kopfes des Haies *Stegostoma tigrinum* Gm. und der Holocephalen, mit einem Anhang über die Nasenrinne. Acta Soc. Sci. Fenn., 1909, **37**, no. 6, 1–60. 36 figs. 1909.1

—— Hermafroditiska exemplar af *Lota vulgaris.* Medd. Soc. Fauna Flora Fenn., 1909, **35**, 227. 1909.2

—— Untersuchungen über die vom N. trigeminus innervierte Muskulatur der Selachier (Haie und Rochen) unter Berücksichtigung ihrer Beziehungen zu benachbarten Organen. Acta Soc. Sci. Fenn., 1909, **36**, no. 3, 1–176. 5 pls. & 23 figs. 1909.3

Pelecus cultratus från Helsingfors. Medd. Soc. Fauna Flora Fenn., 1910, **36**, 3. 1910.1

——Uebersicht der hydrozoologischen Literatur in Finnland seit 1901. Internat. Rev. Ges. Hydrobiol. Hydrogr., 1910–11, **3**, 239–251. 1910.2

Contains a list of 102 titles of scientific publications, 1901–1909. For references to earlier literature *see* Bibliotheca Zoologica Fenniæ, herausgegeben von Zoologen Finlands. Helsingfors, 1909.

—— Beiträge zur Kenntnis des Kopfskelets der Knorpelganoiden. Acta Soc. Sci. Fenn., 1913, **41**, no. 8, 1–26. 10 figs. 1913.1

—— Ueber die vom N. trigeminus versorgte Muskulatur der Ganoiden und Dipneusten. Acta Soc. Sci. Fenn., 1913, **41**, no. 9, 1–72. pl. 1913.2

Luther, *D. Dana,* & **Clarke,** *John Mason.* *See* **Clarke & Luther.**

Lutz, *Johann.* Beobachtungen an *Mollienisia latipinna* (Hochflosser) Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 43–45. fig. 1914.1

—— Mein Werdegang zum Aquarien- und Terrarienhaber. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 654–657. 1914.2

Lvov, *Vasiliĭ Nikolaevich.* Vergleichend-anatomische Studien über die Chorda und die Chordascheide. Bull. Soc. Imp. Nat. Moscou, 1887, n. s. **1**, 227–342; 442–482. 4 pls. 1887.1

—— On the formation of the germinal layers in vertebrates. Ann. Mag. Nat. Hist., 1893, 6. ser. **11**, 360–377. 1893.1

—— Ueber den Zusammenhang von Markrohr und Chorda beim Amphioxus und ähnliche Verhältnisse bei Anneliden. Zeitschr. Wiss. Zool. 1893, **56**, 299–309. pl. 1893.2

—— Ueber die Keimblätterbildung bei den Wirbeltieren. Biol. Centralbl., 1893, **13**, 40–50; 76–81. 1893.3

—— Die Bildung der primären Keimblätter und die Entstehung der Chorda und des Mesoderms bei den Wirbelthieren. Bull. Soc. Nat. Moscou, 1894, n. s. **8**, 56–137; 160–256. 6 pls. 1894.1

Lwow, or **Lwoff,** *Basile Nikolaevich. See* **Lvov,** *V. N.*

Lydekker, *Richard* [1849–1915] For obituary notice *see* Nature, 1915, **97**, 234–236.

—— Indian Tertiary and post-Tertiary vertebrata. Tertiary fishes. Palæont. Indica, 1886, 10. ser. **3**, 241–258. 3 pls. 1886.1

—— Catalogue of vertebrate fossils from the Siwaliks of India in the Science and Art Museum, Dublin. Sci. Trans. Roy. Dublin Soc., 1887, 2. ser. **3**, 69–86. pl. & figs. 1887.1

Pisces, p. 86.

—— The fossil vertebrata of India. Rec. Geol. Surv. India, 1887, **20**, 51–80. 1887.2

Fossil fishes, p. 69–71.

—— (*editor*) The royal natural history. 6 vols. London, 1893–1896. illust. 8°. 1894.1

Vols. i–v. Vertebrate animals and their allies.

—— (*editor*) The new natural history. 10 vols. New York, 1903. 72 pls. & 1600 figs. 1903.1

Vol. x. Fishes.

—— Vertebrate palæontology of Cambridgeshire (In Marr, J. E., & Shipley, A. E. Handbook to the natural history of Cambridgeshire, p. 51–70. London, 1904) 1904.1

—— Bubble-nesting fishes. Knowledge, 1905, 256. 1905.1

—— Flippers and fins. Knowledge, 1907, n. s. **4**, 99–101. 2 figs. 1907.1

—— The year's vertebrate palæontology. Sci. Progress, 1908, **2**, 501–524. 1908.1

—— Vertebrate palæontology in 1908. Sci. Progress, 1909, **3**, 451–471. 1909.1

—— Vertebrate palæontology in 1909. Sci. Progress, 1910, **4**, 649–676. pl. & 3 figs. 1910.1

—— Vertebrate palæontology in 1910. Sci. Progress, 1911, **5**, 660–692. pl. 1911.1

—— Reptiles, amphibia, fishes and lower Chordata. London, 1912. 528 p. illust. 8°. 1912.1

—— Vertebrate palæontology in 1911. Sci. Progress, 1912, **6**, 554–583. 1912.2

—— Vertebrate palæontology in 1912. Sci. Progress, 1914, **8**, 1–24. 1914.1

—— Vertebrate palæontology in 1913. Sci. Progress, 1914, **8**, 626–654. 6 figs. 1914.2

Lydekker, *Richard,* **Johnston,** *(Sir) Harry,* **Ainsworth-Davis,** *(Prof.) J. R.,* & others. Harmsworth natural history. A complete survey of the animal kingdom. 3 vols. London, 1910. illust. 1910.1

Vol. iii. Fishes.

Lydekker, *Richard,* & **Nicholson,** *H. A. See* **Nicholson** & **Lydekker.**

Lydekker, *Richard,* & others. The concise knowledge natural history, edited by A. H. Miles. London, 1897. xvi, 771 p. illust. 8°. 1897.1

Reptilia, Amphibia, Pisces and Cyclostomata, by R. Lydekker.

Lydell, *Dwight.* The habits and culture of the black bass. Trans. Amer. Fisheries Soc. 1902 (1903), 39–44. 6 figs. 1903.1

—— New light on the culture and habits of black bass. N. Y. Times, May 22, 1903. 1903.2

—— The habits and culture of the black bass. Bull. U. S. Fish Comm. 1902 (1904), 39–44. pl. 1904.1

Lydell, *D.*
—— Some notes in connection with the bass work at Mill creek station. Trans. Amer. Fisheries Soc. 1904 (1905), 152–155. 1905.1

—— The bass at Mill creek station. Trans. Amer. Fisheries Soc. 1906 (1907), 171–173. 1907.1

—— Experiments in rearing bass from no. 1 to no. 2 fingerlings. Trans. Amer. Fisheries Soc. 1911 (1912), 147–148. 1912.1

Lydén, *Karl.* Väldiga gäddor. Tidskr. Jägare & Fisk., 1893, **1**, 140–141. 1893.1

Lyell, (*Sir*) *Charles* [1797–1875] For biography *see* Life, letters and journals of Sir C. Lyell . . . edited by his sister-in-law, Mrs. Lyell. London, 1881. 8°.

—— Notice sur la découverte de vertèbres fossiles d'un poisson de la famille des squales dans le loess du Rhin, près de Bâle. Institut, 1837, **5**, no. 197, 58. 1837.1

—— On the occurrence of fossil vertebræ of fish of the shark family in the "loess" of the Rhine, near Basle. Proc. Geol. Soc. London, 1837, **2**, 221. — Phil. Mag., 3. ser. **8**, 557. 1837.2

—— On the boulder formation, or drift and associated freshwater deposits composing the mud-cliffs of eastern Norfolk. Edinb. Phil. Mag., 1840, n. s. **16**, 345–380. — Proc. Geol. Soc. London, **3**, 171–179. 1840.1

Fossil fish remains are mentioned.

—— On the freshwater fossil fishes of Mundesley, as determined by M. Agassiz. Ann. Mag. Nat. Hist., 1842, **8**, 61–62. — Proc. Geol. Soc. London, 362–363. — Phil. Mag., 1842, 3. ser. **11**, 320. 1842.1

—— On the Miocene Tertiary strata of Maryland, Virginia and of North and South Carolina. Quart. Journ. Geol. Soc. London, 1845, **1**, 413–427. 1845.1

Mentions the occurrence of various species of sharks.

—— On the structure and probable age of the coal-field of the James river, near Richmond, Virginia. Quart. Journ. Geol. Soc., 1847, **3**, 275–278. 1847.1

Observations of Sir P. G. Egerton on Triassic fish-remains are quoted. Further observations, not previously published, are quoted by C. R. Eastman, in his "Notes on Triassic fishes," etc. Ann. Carnegie Mus., 1914, **9**, 142–144.

Lyell, (*Mrs.*) *Katharine Murray.* Life, letters and journals of Sir C. Lyell . . . edited by his sister-in-law, Mrs. Lyell. 2 vols. London, 1881. illust. 8°. 1881.1

Lyman, *John F.*, & **Wilson,** *D. Wright.* *See* **Wilson & Lyman.**

Lyman, *Theodore* [1833–1897] On the habits of our river fish and the construction of fish-ways. Proc. Boston Soc. Nat. Hist., 1867, **11**, 125–131. 1867.1

—— [Exhibition of models of fish-ways which had recently been constructed on the Merrimack] Proc. Boston Nat. Hist. Soc., 1868, **11**, 125–131. 1868.1

—— [On the habits of the migratory fishes] Proc. Boston Soc. Nat. Hist., 1868, **11**, 125–131. 1868.2

—— On the limits of artificial culture and the possible exhaustion of sea-fisheries. 4. Ann. Rept. Mass. Comm. Inland Fisheries 1870, 58–67. 1870.1

—— Fishes taken in the Waquoit wier, April 18 to June 18, 1871. 6. Ann. Rept. Mass. Comm. Inland Fisheries, 1872. 1872.1

Most of the nomenclature is by Dr. Franz Steindachner; and some notes by Louis Agassiz are added, marked "Ag." The list enumerates 44 species, and observations are given on the economical relations and habits of some of them.

—— On the possible exhaustion of sea-fisheries. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 112–116. 1873.1

—— Testimony in regard to the present condition of the fisheries, taken in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 9. 1873.2

—— Fish-culture in salt or brackish water. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 575–578. 1874.1

—— Sea-fish and their habits. Forest & Stream, 1876, **6**, 166. 1876.1

—— Sketch of the progress of fish-culture in New England. 10. Ann. Rept. Mass. Comm. Inland Fisheries, 1876, 49–69. 1876.2

—— Fish and game. Forest & Stream, 1879, **12**, 457; 477. 1879.1

—— Address on general phases of fish-culture and the fisheries. Trans. Amer. Fisheries Soc. 1884 (1885), 72–91. 1885.1

Lyman, *Theodore,* & **Field,** *A. R.* On the passage of fish. Ann. Rept. Mass. Comm. Fisheries, 1867. pl. 1867.1

Lyngbye, *Hans Christian* [1782–1837] Om grindefangsten paa Færörne, tilligemed bidrag til grindens naturhistorie. Tidskrift Naturvid. Oersted, 1826, **4**, 204–232. Abstract in Notizen (Froriep), **12**, 33–41. 1826.1

Lyon, *Elias Potter* [1867 —] Compensatory motions in fishes. Amer. Journ. Physiol., 1900, **4**, 77–82. 1900.1

—— On rheotropism. I. Rheotropism in fishes. Amer. Journ. Physiol. 1904 (1905), **12**, 149–161. 1905.1

—— On rheotropism. II. Rheotropism of fish blind in one eye. Amer. Journ. Physiol., 1909, **24**, 244–251. fig. Abstract in Biol. Bull. Woods Hole, **8**, 238–239. 1909.1

Lyon, *George.* On a new species of Rhizodus. Trans. Edinb. Geol. Soc., 1871, **2**, 125. 1871.1

M

M., —— Principes généraux de jurisprudence, sur les droits de chasse et de pêche. Paris, 1775. 226 p. 12°. 1775.1

M., *A.* A new trade; fish oil. Scient. Amer., 1870, **33**, 148. 1870.1

M., *A. R.* Changing of color in fishes. Scient. Amer., 1871, **25**, 260. 1871.1

M., *J.* *See* **Murphy,** *J. Mortimer.*

M., *R. D.* The muscalonge and pike of Michigan. Chicago Field, 1880, **14**, 155. 1880.1

M., *R. T.* *See* **Maitland,** *R. T.*

Maack, *G. August* [1840?–1873] Report on the geology and natural history of the isthmuses of Choco, of Darien, and of Panama (In Selfridge's report Darien ship canal, 1874, p. 155–175. 5 pls. Cambridge, 1879) 1879.1

The fish life of the isthmus, p. 172.

Maas, *Karl.* *Pterophyllum scalare.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 737–739. 2 figs. 1913.1

—— Ein knurrender Wels aus dem Kongo. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 380–382. 1914.1

Maas, *Otto.* Ueber ein pankreasartiges Organ bei Bdellostoma. Anat. Anz., 1896, **12**, 570–573. 2 figs. 1896.1

—— Ueber ein pankreas-ähnliches Organ bei Myxine. Sitzber. Ges. Morphol. Physiol., 1897, **12**, 46–58. 6 figs. Abstract in Zool. Centralbl., 3. Jahrg., no. 21, 741–742. 1897.1

—— Ueber Entwicklungsstadien der Vorniere und Urniere bei Myxine. Zool. Jahrb., 1897, **10**, 473–510. 4 pls. Abstract in Journ. Roy. Micr. Soc., 1897, pt. 1, 54–55. 1897.2

—— Verlauf und Schichtenbau des Darmkanals von *Myxine glutinosa* L. (In Festschrift zum siebenzigsten Geburtstag von Carl von Kupffer, p. 197–220, pls. xii–xiv. Jena, 1899) 1899.1

Macadam, *Stevenson.* On the poisonous nature of crude paraffin oil and the products of its rectification upon fish. Rept. Brit. Assoc. Adv. Sci., 36. meet., 1866, 41–43. — Chemical News, **14**, 110–111. 1866.1

Macallum, *A. B.* Alimentary canal, liver, pancreas and air-bladder of *Amiurus catus.* Proc. Canadian Instit., 1884, n. s. **2**, no. 3, 387–417. 1884.1

—— The alimentary canal and pancreas of Acipenser, Amia and Lepidosteus. Journ. Anat. Physiol., London, 1886, **20**, 604–636. pl. Abstract in Proc. Canadian Instit., 3. ser. **3**, 271–274. 1886.1

—— On the absorption of iron in the animal body. Cambridge, 1894. 1894.1

—— On the histology and histogenesis of the heart muscle. Anat. Anz., 1897, **13**, no. 23, 609–620. 10 figs. 1897.1

Macallum, *A. B.*, **Mackenzie,** *T.*, **McMurrich,** *James Playfair,* & **Wright,** *R. Ramsay.* *See* **Wright, McMurrich** & others.

M'Alpine, *A. N.*, & **M'Alpine,** *Daniel.* *See* **M'Alpine,** *D.*, & **M'Alpine,** *A. N.*

M'Alpine, *Daniel.* Zoological atlas (including comparative anatomy) with practical directions and explanatory text for the use of students. Vertebrata. Edinburgh, 1881. 24 pls. & 231 figs. 4°. 1881.1

5 plates are devoted to the skate and 4 to the cod.

M'Alpine, *Daniel,* & **M'Alpine,** *A. N.* Biological atlas: a guide to the practical study of plants and animals. Adapted to the requirements of the London University, science and art department, and for use in schools and colleges. Edinburgh, 1880. 49 p. 24 pls. 4°. 1880.1

McArdle, *A. F.* Natural history notes from the Royal Indian marine survey ship "Investigator," Commander

T. H. Heming, R. N., commanding. Series III, no. 5. An account of the trawling operations during the surveying-season of 1900–1901. Ann. Mag. Nat. Hist., 1901, 7. ser. **8**, 517–526. 1901.1

McAtee, *W. L.*, **Eigenmann,** *Carl H.*, & **Ward,** *D. P. See* **Eigenmann, McAtee & Ward.**

McAtee, *W. L.*, & **Weed,** *A. C.* First list of the fishes of the vicinity of Plummers island, Maryland. Proc. Biol. Soc. Washington, 1915, **28**, 1–14. 2 pls. 1915.1

McBain, *James.* Notice of the development of fish spawn from the firth of Forth. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 373–374. 1863.1

MacBride, *Ernest William.* Note on the formation of germinal layers in Amphioxus. Proc. Cambridge Phil. Soc., 1896, **9**, pt. 3, 150–153. Abstract in Journ. Roy. Micr. Soc., pt. 6, 606. 1896.1

—— The relationship of Amphioxus and Balanoglossus. Proc. Cambridge Phil. Soc., 1897, **9**, 309–313. 1897.1

—— The early development of Amphioxus. Quart. Journ. Micr. Sci., 1898, n. s. **40**, pt. 4, 589–612. 3 pls. 1898.1

—— Further remarks on the development of Amphioxus. Quart. Journ. Micr. Sci., 1900, n. s. **43**, 351–366. pl. 1900.1

—— The gastrulation and formation of layers in Amphioxus. Rept. Brit. Assoc. Adv. Sci., 78. meet., 1908, 730–740. 1908.1

—— The formation of the layers in Amphioxus and its bearing on the interpretation of the early ontogenetic processes in other vertebrates. Quart. Journ. Micr. Sci., 1909, **54**, 279–346. 4 pls. & 10 figs. 1909.1

—— Prof. A. A. W. Hubrecht [Obituary notice] Nature, 1915, **95**, 121–122. 1915.1

MacBride, *Ernest William,* & **Shipley,** *Arthur E. See* **Shipley & MacBride.**

MacCallum, *G. A. Aspidogaster ringeus* (Linton) and *A. kemostoma*, n. sp. Zool. Jahrb. (*Abth. Syst.*), 1913, **34**, 245–256. 4 figs. 1913.1

—— Fertilization and egg-laying in *Microcotyle stenotorni* [a parasite on gills of fish] Science, 1913, **37**, 340–345. 1913.2

—— Further notes on the genus Microcotyle. Zool. Jahrb. (*Abth. Syst.*), 1913, **35**, 389–391. 1913.3

—— Notes on trematode parasites of marine fishes. Centralbl. Bakt. Paras., 1913 (*Originale*), **70**, 407–416. 11 figs. 1913.4

—— *Thoracocotyle croceus*, nov. gen. et n. sp. Centralbl. Bakt. Paras., 1913 (*Originale*), **68**, 335. 1913.5

Describes parasites found on the gills of Spanish mackerel.

—— Some new species of parasitic trematodes of marine fishes. Zoopathologica, 1916, **1**, no. 1. 38 p. 1916.1

MacCallum, *G. A.*, & **MacCallum,** *W. G.* Four species of Microcotyle . . . [parasites on the gills of marine fishes] Zool. Jahrb. (*Abth. Syst.*), 1913, **34**, 223–244. 10 figs. 1913.1

MacCallum, *W. G.* On the anatomy of two distome parasites of fresh-water fish. Veterin. Mag., 1895, **2**, no. 7, 12 p. 8 figs. 1895.1

—— On two new amphistome parasites of Sumatran fishes (Voyage of Dr. W. Volz) Zool. Jahrb. (*Abth. Syst.*), 1905, **22**, 667–678. 1905.1

MacCallum, *W. G.*, & **MacCallum,** *G. A. See* **MacCallum,** *G. A.*, & **MacCallum,** *W. G.*

M'Calmont, *Robert.* Vessel pierced by the weapon of the sword-fish. Ann. Mag. Nat. Hist., 1844, **13**, 235–236. 1844.1

McCarthy, *Eugene.* The leaping ouananiche. New York, 1894. 66 p. illust. 8°. 1894.1

—— Familiar fish. Their habits and capture. A practical book on fresh-water game fish, with introduction by D. S. Jordan. New York, 1900. xiv, 216 p. illust. 1900.1

MacCartney, *W. Newton.* On the herring. Intell. Observ., 1864, **5**, 368–373. 1864.1

McCaskie, *A.* Official papers relating to the proposed international fisheries exhibition at Edinburgh in 1882. Bull. U. S. Fish Comm. 1881 (1882), **1**, 130–132. 1882.1

McCaughan, *J. Z. A.*, & **Hall,** *E. A.* *See* **Hall** & **McCaughan.**

M'Clelland, *John* [1805–1875] Description of the [so-called] mountain trout of Kemaon. Journ. Asiat. Soc. Bengal, 1835, **4**, 39–41. pl. 1835.1

—— Communication on the subject of two small fish from a hot spring at Pooree. Journ. Asiat. Soc. Bengal, 1838, **7**, 465. 1838.1

—— Indian Cyprinidæ. Asiatic Researches, 1839, **19**, pt. 2, 217–471. — Ann. Mag. Nat. Hist., **8**, 35–46; 108–121; 192–203. — Journ. Asiat. Soc. Bengal, **8**, 650. 1839.1

—— Observations on six new species of Cyprinidæ, with an outline of a new classification of the family. Journ. Asiat. Soc. Bengal, 1839, **8**, 941–947. 1839.2

—— On isinglass in *Polynemus sele* Buch., a species which is very common in the estuaries of the Ganges. Journ. Asiat. Soc. Bengal, 1839, **8**, 203–207. — Ann. Mag. Nat. Hist., **4**, 401–405. 1839.3

—— On two undescribed species of skate or Raiæ [*Myliobatis macroptera* and *Trygon variegatus*] Journ. Nat. Hist. Calcutta, 1841, **1**, 59–60. — Isis (Oken), 1843, 805–806. 1841.1

—— On the freshwater fishes collected by William Griffith during his travels from 1835 to 1842. Journ. Nat. Hist. Calcutta, 1842, **2**, 560–589. 1842.1

—— Remarks on a new genus of thoracic percoid fishes, Cestreus. Journ. Nat. Hist. Calcutta, 1842, **2**, 150–152. 1842.2

—— Remarks on collections. A species of Ambassis (*A. commersiona*) and Cestreus (*C. minimus*), a new genus of thoracic fishes. Journ. Nat. Hist. Calcutta, 1842, **2**, 144–152. 1842.3

—— Memorandum regarding *Salmo orientalis*. Journ. Nat. Hist. Calcutta, 1843, **3**, 283–287. 1843.1

—— Description of a collection of fishes made at Chusan and Ningpo in China, by G. R. Playfair. Journ. Nat. Hist. Calcutta, 1844, **4**, 390–413. 1844.1

—— Notice of a fossil fish, the supposed *Rana diluvii testis*, or fossil batrachian. Journ. Nat. Hist. Calcutta, 1844, **4**, 83–85. 1844.2

—— Apodal fishes of Bengal. Journ. Nat. Hist. Calcutta, 1845, **5**, 150–226. 1845.1

—— Description of four species of fishes from the rivers at the foot of the Boutan mountains [*Ophicephalus amphibius, Barbus spinolosus, B. clavatus, Ctenops nobilis*] Journ. Nat. Hist. Calcutta, 1845, **5**, 274–282. 1845.2

McClendon, *J. F.* Artificial cyclopia in the smelt. Proc. Soc. Exper. Biol. Med., New York, 1910, **7**, 111. 1910.1

—— An attempt toward the physical chemistry of the production of one-eyed monstrosities. Amer. Journ. Physiol., 1912, **29**, 289–297. 1912.1

—— The effects of alkaloids on the development of fish (Fundulus) eggs. Amer. Journ. Physiol., 1912, **31**, 131–140. 9 figs. — Science, 1912, **36**, 412–414. 1912.2

—— The relation between abnormal permeability and abnormal development of Fundulus eggs. Science, 1913, n. s. **38**, 280. 1913.1

—— On the antagonistic action of salts and anesthetics in increasing permeability of fish eggs (Preliminary note) Science, 1914, n. s. **40**, 214–215. 1914.1

Pure salt solutions or anesthetics in nearly lethal concentrations increase irreversibly permeability. Anesthetics in about one-half this concentration antagonize action of salts.

—— On the parallelism between increase in permeability and abnormal development of fish eggs. Science, 1914, n. s. **39**, 436. — Intern. Zeitschr. Physik. Chem. Biol., 1914, **1**, 28–34. 4 figs. 1914.2

McClung, *C. E.* Bibliography, with brief history of the department of zoology, University of Kansas. Kansas Univ. Sci. Bull., 1908, **4**, 219–232. 1908.1

—— Ichthyological notes on the Kansas Cretaceous, I. Kansas Univ. Sci. Bull., 1908, **4**, 233–246. 4 pls. & 10 figs. 1908.2

McClure, *Charles Freeman Williams* [1865 —] Notes on the early stages in development of *Petromyzon marinus* L. (= *P. americanus* Le S.) Zool. Anz., 1893, **16**, 367–368; 373–376. 1893.1

—— The primary segmentation of the brain [a review of Neal, H. V. The segmentation of the nervous system in

Squalus acanthias] Science, 1897, n. s. **5**, 260–261. 1897.1

—— The development of the lymphatic system in fishes. Proc. 17. Intern. Congr. Medicine, London, 1913. 1913.1

—— The development of lymphatic system in the trout. Anat. Record, 1914, **8**, 73–76. 1914.1

Discontinuous lymph spaces fuse and gain connection with veins. Great subocular lymph sac.

—— The development of the lymphatic system in fishes with especial reference to its development in the trout. Mem. Wistar Inst. Anat. Biol., Philadelphia, 1915, no. 4, 1–75. 31 pls. 1915.1

—— On the provisional arrangement of the embryonic lymphatic system; an arrangement by means of which a centripetal lymph flow toward the venous circulation is controlled and regulated in an orderly and uniform manner, from the time lymph begins to collect in the intercellular spaces, until it is forwarded to the venous circulation. Anat. Rec., 1915, **9**, 281–296. 6 figs. 1915.2

McCormick, *L. M.* List of fishes of Lorain county, Ohio. Journ. Cincinnati Soc. Nat. Hist., 1890, **12**, 126–128. 1890.1

—— Descriptive list of the fishes of Lorain county, Ohio. Bull. Oberlin Coll. Labor., 1892, no. 2. 34 p. 14 pls. 1892.1

M'Coy, (*Sir*) *Frederick* [1823–1899] On some new or rare fish [*Trigla blochii, Cottus grœnlandicus, Thynnus pelamys*] occurring on the coast of Ireland. Ann. Mag. Nat. Hist., 1841, **6**, 402–408. fig. 1841.1

—— Note on the Irish species of Cephaloptera [Pterocephala] Ann. Mag. Nat. Hist., 1847, **19**, 176–178. pl. 1847.1

—— On some new fossil fish of the Carboniferous period. Ann. Mag. Nat. Hist., 1848, 2. ser. **2**, 1–10; 115–133. — L'Institut, 1849, **17**, 22. 1848.1

Cœlacanths, Placoderms, Cestracionts and Hybodonts.

—— On some new ichthyolites from the Scotch Old Red Sandstone. Ann. Mag. Nat. Hist., 1848, 2. ser. **2**, 297–312. 4 figs. 1848.2

Placoderms and Cœlacanths.

—— Reply to Sir Philip Egerton's letter on the Placodermi. Ann. Mag. Nat. Hist., 1848, 2. ser. **2**, 277–280. 1848.3

—— Reply to Prof. Owen's letter on the ganoine of some fish teeth. Ann. Mag. Nat. Hist., 1849, 2. ser. **3**, 140–141. 1849.1

—— Reply to Sir Philip Egerton's letter on the tail of Diplopterus. Ann. Mag. Nat. Hist.,1849, 2. ser. **3**, 139–140. 1849.2

—— On the mode of succession of the teeth in Cochliodus. Rept. Brit. Assoc. Adv. Sci., 22. meet., 1852, 55. 1852.1

—— On the supposed fish remains figured in plate 4 of the "Silurian System." Quart. Journ. Geol. Soc., 1853, **9**, 12–15. 2 figs. 1853.1

—— Descriptions of the British Palæozoic fossils in the Geological Museum of the University of Cambridge. Cambridge, 1854. 661 p. 26 pls. 1854.1

Vertebrate fossils, p. 575–644.

—— Notes on the Australian species of Arripis. Trans. Proc. Roy. Soc. Victoria, 1865, **6**, 158–159. — Ann. Mag. Nat. Hist., 1865, 3. ser. **16**, 187–188. 1865.1

—— Notes sur la zoologie et la paléontologie de Victoria. Melbourne, 1866. 8°. 1866.1

—— On a new Australian species of Thyrsites [*T. micropus*] Ann. Mag. Nat. Hist., 1873, 4. ser. **11**, 338–339. 1873.1

—— Note of *Thyrsites micropus*. Monthly Not. Roy. Soc. Tasmania 1873 (1874), 50. 1874.1

—— On a new Parascyllium from Hobson's bay. Ann. Mag. Nat. Hist., 1874, 4. ser. **13**, 15. 2 pls. 1874.2

—— Natural history of Victoria. 2 vols. Melbourne & London, 1878–1890. 1878.1

—— *Scomber pneumatophorus* De La Roche, described and figured. Proc. Zool. Soc. Victoria, Dec. 3, 1879. pl. 1879.1

McCulloch, *Allan R.* The results of deep-sea investigation in the Tasman sea. Pt. 2. The expedition of the "Woy Woy." I. Fishes and crustaceans from eight hundred fathoms.

McCulloch, *A. R.*
Rec. Austral. Mus., 1907, **6**, pt. 5, 345–355. 3 pls. 1907.1

—— Studies in Australian fishes. no. 1. Rec. Austral. Mus., 1908, **7**, pt. 1, 36–43. 2 pls. *Ibid.*, 1909, **7**, pt. 4, 315–321. 2 pls. & fig. 1908.1

—— Zoological results of the fishing experiments carried out by the F. I. S. "Endeavour" 1909–1910 (In his Report on the fishes obtained by the F. I. S. "Endeavour" on the coasts of New South Wales, Victoria, South Australia and Tasmania, vol. i, pt. 1, 1–87. 16 pls. [Sydney] 1911) 1911.1

—— A description and figures of three specimens of Molacanthus from the central Pacific ocean. Proc. Linn. Soc. New South Wales, 1912, n. s. **37**, 553–555. 2 pls. 1912.1

—— Notes on some Australian Atherinidæ. Proc. Roy. Soc. Queensland, 1912, **24**, 47–53. pl. & figs. 1912.2

—— Notes on some western Australian fishes. Rec. W. Austral. Mus. Perth, 1912, **1**, 78–97. 5 pls. 1912.3

—— Studies in Australian fishes. no. 3. Rec. Austral. Mus., 1913, **9**, 355–389. 9 pls. & 2 figs. 1913.1

—— Biological results (In his Report on some fishes obtained by the F. I. S. "Endeavour" on the coasts of Queensland, New South Wales, Victoria, Tasmania, south and south-western Australia. vol. ii, pt. 3, 77–165. 22 pls. Sydney, 1914) 1914.1

—— The fishes of New South Wales. N. S. Wales Handbook, Sydney, 1914, 322–329. 1914.2

—— Notes on some Australian pipefishes. Austral. Zoologist, 1914, **1**, pt. 1, 29–31. 4 figs. 1914.3

Sexual dimorphism of *Stigmatophora nigra*. *Histiogamphelus briggsii*, n. sp.

—— Notes on some western Australian fishes. Rec. W. Austral. Mus. Perth, 1914, **1**, pt. 3, 211–227. 31 pls. 1914.4

—— The migration of the jolly-tail or eel-gudgeon, *Galaxias attenuatus*, from the sea to fresh water. Austral. Zoologist, 1915, **1**, 47–49. 2 figs. 1915.1

—— Ichthyological items. Mem. Queensland Mus., 1916, **5**, 58–69. 3 pls. & 4 figs. 1916.1

—— Report on some fishes obtained by the F. I. S. "Endeavour" on the coasts of Queensland, New South Wales, Victoria, Tasmania, south and south-western Australia. Part IV. Commonwealth of Australia, Dept. Trades & Customs, Fisheries, 1916, **4**, pt. 4, 169–199. 10 pls. & 2 figs. 1916.2

Sharks, rays and several genera of teleosts are described and illustrated.

McCulloch, *Allan R.*, & **Ogilby,** *J. Douglas.* *See* **Ogilby & McCulloch.**

MacCulloch, *John* [1773–1835] On preserving fish by sugar. Edinburgh Phil. Journ., 1822, **7**, 242–243. 1822.1

—— On the herring. Quart. Journ. Sci. Arts, London, 1823, **16**, 210–228. — Notizen (Froriep), **6**, 305–311. 1823.1

—— Hints on the possibility of changing the residence of certain fishes from salt water to fresh. Quart. Journ. Sci. Arts, London, 1824, **17**, 209–232. *Ibid.*, 1825, **18**, 237–243. — Notizen (Froriep), **11**, 259–262. 1824.1

—— On the herring. Quart. Journ. Sci. Arts, London, 1824, **16**, 210–228. — Notizen (Froriep), **6**, 305–311. 1824.2

—— On the possibility of changing the residence of certain fishes from salt water to fresh. Quart. Journ. Sci. Arts, London, 1826, **21**, 15–19. *Ibid.*, 1828, **24**, 320–328. — Notizen (Froriep), **20**, 324–328. — Isis (Oken), **10**, 931. — Bull. Sci. Nat. (Férussac), **7**, 121. *Ibid.*, **11**, 242. *Ibid.*, **14**, 131. *Ibid.*, **15**, 247. 1826.1

—— On the use of lights or fires in the fisheries. Quart. Journ. Sci. Arts, London, 1826, **21**, 264–267. 1826.2

McCulloch, *J. R.* A dictionary, practical, theoretical and historical, of commerce and commercial navigation. London, 1869. 1558 p. pls. 8°. 1869.1

Cod; cod fishery; cod liver oil, p. 320–325.

McDonald, *Duncan George Forbes* [1823?–1884] Account of the fisheries of the Bombay presidency. Bombay, 1883. fol. 1883.1

Macdonald, *John Denis.* On the characters of the type of a proposed new genus of Mugilidæ inhabiting the fresh waters of Viti Levu, Feejee group; with a brief account of the native mode of capturing it. Proc. Zool. Soc. London, 1869, 38–40. pl. 1869.1

Macdonald, *John Denis,* & **Barron,** *Charles.* Note on *Heptanchus indicus,* chiefly as regards sexual characters. Proc. Zool. Soc. London, 1868, 371–373. pl. 1868.1

—— On a supposed new species of Galeocerdo [*G. rayneri*] from southern seas. Proc. Zool. Soc. London, 1868, 368–371. pl. 1868.2

McDonald, *J. L.* Hidden treasures, or Fisheries around the northwest coast. Gloucester, Mass., 1871. 111 p. 8°. 1871.1

McDonald, *Marshall* [1835–1895] Fish-culture in Virginia. Forest & Stream, 1876, **5**, 387. 1876.1

—— Apparatus for hatching floating eggs, such as the cod and mackerel. Forest & Stream, 1880, **15**, 287. 1880.1

—— Fish-culture in Virginia. Chicago Field, 1880, **13**, 68. 1880.2

—— Experiments in the transportation of the German carp in a limited supply of water. Bull. U. S. Fish Comm. 1881 (1882), **1**, 215–218. 1882.1

—— Distribution of German carp by the United States Fish Commission. Bull. U. S. Fish Comm. 1882 (1883), **2**, 94. 1883.1

—— History of the experiments leading to the development of the automatic fish-hatching jar. Bull. U. S. Fish Comm. 1883, **3**, 183–192. 5 figs. — Trans. Amer. Fisheries Soc. 1883 (1884), 34–36. 5 figs. 1883.2

—— California trout planted in Roanoke river in July, 1883, retaken in June, 1884. Bull. U. S. Fish Comm. 1884, **4**, 286. 1884.1

—— Experimental investigations upon the cod hatching at Woods Hole, Mass., during the winter of 1880–81. Rept. U. S. Fish Comm. 1881 (1884), **9**, 1127–1129. fig. 1884.2

—— The fisheries of the Delaware river (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 654–657. Washington, 1884) 1884.3

—— Memorandum of some results of fish-culture already attained. Bull. U. S. Fish Comm. 1884, **4**, 261–262. 1884.4

—— Natural history of shad and alewives (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 1, 579–609. 8 pls. Washington, 1884) 1884.5

—— A new system in fishway building. Trans. Amer. Fisheries Soc. 1883 (1884), 57–74. 12 figs. 1884.6

—— Report of distribution of carp during the season of 1881–82 by the United States Fish Commission. Rept. U. S. Fish Comm. 1881 (1884), **9**, 1121–1126. fig. 1884.7

—— Report of operations at central station, United States Fish Commission, during 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 879–890. 5 pls. & fig. 1884.8

—— Report of the distribution of carp during the season of 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 899–902; 915–942. 1884.9

—— Shad eggs sent to Cold Spring Harbor, N. Y., to be hatched. Bull. U. S. Fish Comm. 1884, **4**, 198. 1884.10

—— Spanish mackerel investigations at Cherrystone, Va., during the summer of 1881. Rept. U. S. Fish Comm. 1881 (1884), **9**, 1131–1133. 1884.11

—— Transferring catfish from the Potomac to the Colorado river, Arizona. Bull. U. S. Fish Comm. 1884, **4**, 212. 1884.12

—— Effect of waste products from Page's ammoniacal works upon young shad fry. Bull. U. S. Fish Comm. 1885, **5**, 313–314. 1885.1

—— Natural causes influencing the movements of fish in rivers. Trans. Amer. Fisheries Soc. 1884 (1885), 164–170. 1885.2

—— Report of operations at central station, United States Fish Commission, during 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1017–1034. pl. 1885.3

—— Report of shad propagation in the Potomac river during the season of 1885. Bull. U. S. Fish Comm. 1885, **5**, 369–385. 1885.4

—— Report on the pollution of the Potomac river by the discharge of waste products from gas manufacture. Bull. U. S. Fish Comm. 1885, **5**, 125–126. 1885.5

—— Some objective points in fish-culture. Trans. Amer. Fisheries Soc. 1885 (1886), 72–76. 1886.1

McDonald, *M.*

—— California trout for the Ozark mountain region. Bull. U. S. Fish Comm. 1886 (1887), **6**, 447–448. 1887.1

—— Distribution of shad fry during 1886. Bull. U. S. Fish Comm. 1886 (1887), **6**, 302. 1887.2

—— The fisheries of Chesapeake bay and its tributaries (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 637–654. pl. Washington, 1887) 1887.3

—— The fisheries of the Connecticut and Housatonic rivers and minor tributaries of Long Island sound (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 659–667. Washington, 1887) 1887.4

—— The fisheries of the Hudson river (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 658–659. Washington, 1887) 1887.5

—— The fisheries of the rivers and sounds of North Carolina (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 625–637. 4 pls. Washington, 1887) 1887.6

—— The river fisheries of eastern Florida, Georgia and South Carolina (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 613–625. 3 pls. Washington, 1887) 1887.7

—— Report of operations at the trout-breeding station at Wytheville, Va., from its occupation in January, 1882, to the close of 1884. Rept. U. S. Fish Comm. 1885 (1887), **13**, 103–108. 1887.8

—— Report of shad propagation on the Potomac river during the season of 1886. Bull. U. S. Fish Comm. 1886 (1887), **6**, 436–438. 1887.9

—— Report on distribution of fish and eggs by the United States Fish Commission for the season of 1885–86. Bull. U. S. Fish Comm. 1886 (1887), **6**, 385–394. 1887.10

—— Report on shad distribution for 1886. Bull. U. S. Fish Comm. 1886 (1887), **6**, 427–432. 1887.11

—— Virginia and its fisheries (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 2, 449–473. Washington, 1887) 1887.12

—— Report of distribution of fish and eggs by the United States Fish Commission from January 1, 1886, to June 30, 1887. Rept. U. S. Fish Comm. 1886 (1889), **14**, 833–842. 1889.1

—— Report of operations at the Wytheville station, Va., from January 1, 1885, to June 30, 1887. Rept. U. S. Fish Comm. 1886 (1889), **14**, 793–800. 6 pls. 1889.2

—— Report of shad distribution for the season of 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 801–806. 1889.3

—— Report of shad propagation of the Potomac river during the season of 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 815–817. 1889.4

—— Report of the commissioner. Rept. U. S. Fish Comm. 1887 (1890), **15**, i–lix. 1890.1

—— Report of the commissioner. Rept. U. S. Fish Comm. 1888 (1892), **16**, ix–xxxix. 1892.1

—— Report of the commissioner from 1889 to 1891. Rept. U. S. Fish Comm. 1889–91 (1893), **17**, 1–96. 1893.1

—— Report of the commissioner. Rept. U. S. Fish Comm. 1892 (1894), **18**, vii–lxxxvii. 1894.1

—— Report on the salmon fisheries of Alaska. Bull. U. S. Fish Comm. 1892 (1894), **12**, 1–49. 9 pls. 1894.2

—— Relations of the community to the fisheries. Trans. Amer. Fisheries Soc. 1894 (1895), 35–55. 1895.1

—— Report of the commissioner. Rept. U. S. Fish Comm. 1893 (1895), **19**, 1–16. 1895.2

—— The salmon fisheries of the Columbia river basin. Bull. U. S. Fish Comm. 1894 (1895), **14**, 153–168. map & 2 charts. Also separate; Washington, 1894. 8°. 1895.3

—— The salmon fisheries of Columbia river, together with a report upon physical and natural history investigations in the region, by C. H. Gilbert and B. W. Evermann. Bull. U. S. Fish Comm. 1894 (1895), **14**, 153–168. 2 pls. 1895.4

McDonald, *Marshall,* & **Baird,** *Spencer Fullerton. See* **Baird & McDonald.**

Macdonald, *W. B.* (*translator*) The zoology of Homer and Hesiod (In Groshans, G. P. F. Quædam naturalia antiqua. Rammerscales, 1846. 14 p. 8°) 1846.1

Macdonald, *William* [1797–1875] On the osseous structure of fishes. Ann. Mag. Nat. Hist., 1838, **2**, 69. 1838.1

—— On the structure of fishes, so far as the analogies can be traced between the limbs of the mammals and the fins of fishes. Rept. Brit. Assoc. Adv. Sci., 10. meet., 1840, pt. 2, 131–133. — Ann. Mag. Nat. Hist., **2**, 69–70. 1840.1

—— On the homologies of the vertebral skeleton in osseous fishes and in man. Abstract in Proc. Roy. Soc. Edinburgh, 1872, **7**, 472–474. 1872.1

Macdonnell, *Robert* [1828–1889] Further observations on the power exercised by the Actiniæ of our shores in killing their prey [including young fish] Proc. Roy. Soc. London, 1857–59, **9**, 478–480. 1857.1

—— On the electrical nature of the power possessed by the Actiniæ of our shores. Proc. Roy. Soc. London, 1857–59, **9**, 103–107. — Proc. Dublin Univ. Zool. Bot. Assoc., **1**, 55–59. — Ann. Mag. Nat. Hist., 3. ser. **1**, 308–311. 1857.2

—— Observations on the habits and anatomy of the *Lepidosiren annectens.* Journ. Roy. Dublin Soc. 1858–59 (1860), **2**, 388–406. — Nat. Hist. Rev., 1859, **7**, 93–112. — Zeitschr. Wiss. Zool., 1860, **10**, 409–411. Also separate; Dublin, 1860. 8°. 1860.1

—— On the organ in the skate which appears to be the homologue of the electrical organ of the torpedo. Nat. Hist. Rev., 1861, **9**, 57–60. 1861.1

—— Sur un organe des raies qui paraît être l'homologue de l'organe électrique des torpilles. Arch. Sci. Phys. Nat. Genève, 1861, n. s. **12**, 392–393. 1861.2

—— On the organs which in the common ray (Raja) are homologous with the electrical organs of the torpedo. Proc. Roy. Irish Acad., 1862, **7**, 362–364. — Dublin Quart. Journ. Sci., 1861, **1**, 1–4. 1862.1

—— On the system of the "lateral lines" in fishes. Trans. Roy. Irish Acad., 1864, **24**, pt. 3, 161–187. 4 pls. & 11 figs. 1864.1

McDougall, *William.* Fisheries. Appendices from the annual reports for 1862. Quebec, 1863. 8°. 1863.1

McDowell, *W. W.* Salmon in the Mississippi. Forest & Stream, 1878, **10**, 134. 1878.1

McFarland, *Raymond.* A history of the New England fisheries, with maps. New York, 1911. v, 457 p. 1911.1

Bibliography of New England fisheries, p. 338–363.

—— The Newfoundland view. Boston Transcript, June 23, 1910. 1910.1

Macfie, *Matthew.* Vancouver island and British Columbia. Their history, resources and prospects. London, 1865. 574 p. 2 maps. 8°. 1865.1

Fisheries, p. 163–171.

McGilchrist, *A. C.* On a genus of teleostean fish [*Dysalotus alcocki*] closely allied to Chiasmodus. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 268–270. 1905.1

McGilchrist, *A. C.,* & **Alcock,** (*Surg. Maj.*) *Alfred William. See* **Alcock & McGilchrist.**

McGill, *Caroline.* The early histogenesis of striated muscle in the œsophagus of the pig and the dogfish. Anat. Rec., 1910, **4**, 23–47. 25 figs. 1910.1

MacGillivray, *John* [1822–1867] On some mammalia, birds and fishes lately observed in the neighbourhood of Aberdeen. Ann. Mag. Nat. Hist., 1842, **8**, 230–231. 1842.1

McGlone, *Bartgis.* A note on the occurrence of two West Indian fishes at Beaufort, N. C. Science, 1908, n. s. **28**, 572. 1908.1

McGovern, *Hugh D.* The *Belostoma grandis.* Forest & Stream, 1879, **12**, 125. 1879.1

—— The breeding of eels. Chicago Field, 1879, **11**, 237. 1879.2

—— The new enemies of trout. Trans. Amer. Fisheries Soc. 1879 (1880), 6–8. — Chicago Field, 1879, **11**, 308. 1880.1

McGovern, *H. D.*
—— The curious habits of eels. Trans. Amer. Fisheries Soc. 1880 (1881), 19–20. 1881.1

—— Habits and food of the German carp. Trans. Amer. Fisheries Soc. 1881 (1882), 11–12. 1882.1

—— The habits, endurance and growth of carp. Trans. Amer. Fisheries Soc. 1882 (1883), 5–7. 1883.1

McGowan, *Daniel J.* Carp culture in China. Bull. U. S. Fish Comm. 1885, **5**, 235–240. 1885.1

McGrath, *P. T.* The Atlantic fisheries question. North Amer. Rev., 1898, **167**, 729. 1898.1

Shows what would happen if the existing relations in regard to the fisheries of New England, Canada and Newfoundland were dissolved.

—— The Atlantic fisheries question. Atlantic Monthly, 1902, **90**, 741. 1902.1

A Newfoundland point of view of the fisheries question by a St. John editor and publisher.

—— New England's deep-sea fishing interests. Amer. Review of Reviews, 1906, **33**, 561. 1906.1

MacGregor, *John.* The progress of America, from the discovery of Columbus to the year 1846. 2 vols. London, 1847. 8°. 1847.1

Fisheries of British America and the United States, p. 545–582.

McGregor, *Richard Crittenden,* & **Jordan,** *David Starr. See* **Jordan** & **McGregor.**

Machado de Carvalho, *G.* Le depeuplement des eaux provençales. Bull. Soc. Centr. Aquicult Pêche, 1897, **9**, 131–177. 1897.1

—— Le pejerrey et les Athérinidées. Bull. Soc. Centr. Aquicult. Pêche, 1898, **10**, 7–27. pl. 1898.1

Machado y Nuñez, *Antonio.* Catálogo de los peces que habitan ó frecuentan las costas de Cádiz y Huelva, con inclusión de los del río Quadalquivir. Sevilla, 1856. 30 p. 4°. 1856.1

Machat, *J.* The antarctic question. Voyages to the south pole since 1898. Ann. Rept. Smithson. Instit. 1908 (1909), 451–480. 1909.1

Macilwaine, *W.* The pollan, or freshwater herring of lough Neagh (*Coregonus pollan* Thompson) Science Gossip, 1880, **16**, 217–218. 1880.1

McIndoo, *N. E.* On some fishes of western Cuba. Proc. Acad. Nat. Sci. Philad. 1906 (1907), **58**, 484–488. 1907.1

The following-named families are enumerated: Pœcilidæ, Cichlidæ, Gobiidæ, Esocidæ, Atherinidæ, Mugilidæ, Carangidæ, Lutianidæ, Hæmulidæ, Gerridæ, Sciænidæ, Pomacentridæ, Scaridæ, Blenniidæ and Pleuronectidæ.

M'Intosh, *L.* The salmon. Perth, 1882. 8°. 1882.1

McIntosh, *William Carmichael* [1838 —] Notes on the food and parasites of the *Salmo salar* of the Tay. Journ. Proc. Linn. Soc. London (*Zool.*), 1864, **7**, 145–154. — Zoologist, 1864, **22**, 8929–8932. fig. 1864.1

—— Experiments on young salmon. Quart. Journ. Micr. Sci., 1868, n. s. **8**, 145–154. pl. 1868.1

—— Notes on experiments with poisons, etc., on young salmon. Rept. Brit. Assoc. Adv. Sci., 37. meet. 1867 (1868), 102. 1868.2

—— On the "yellow-fins" of the Allanwater, *Salmo brachypoma, S. trutta.* Scottish Naturalist, 1871–72, **1**, 227–233. 1871.1

—— Note on the examination of a male kelt. Scottish Naturalist, 1873–74, **2**, 156–158. 1873.1

—— On the invertebrate marine fauna and fishes of St. Andrews. Ann. Mag. Nat. Hist., 1874, 4. ser. **13**, 140–145; 204–221; 302–315; 342–357; 420–432. *Ibid.*, **14**, 68–75; 144–155; 192–207; 258–274; 337–349; 412–425. 1874.1

—— The eggs of fish. Nature, 1885, **31**, 534–536; 555–557. — Ann. Rept. Fishery Board Scotland, 1885, Append. F, 61. 1885.1

—— Notes from the St. Andrews Marine Laboratory. II. Ann. Mag. Nat. Hist., 1885, 5. ser. **15**, 429–437. pl. 1885.2

i. On the spawning of certain marine fishes.
ii. On *Zoarces viviparus*, the viviparous blenny.
iii. On the ovaries of the wolf-fish, *Anarrhichas lupus.*
iv. On the ova of the armed bullhead, *Agonus cataphractus* L.
v. On the ova of the bimaculated sucker, *Lepadogaster bimaculatus* Donov.
vi. On the ova of Montagu's sucker, *Liparis montagui* Donov.
vii. Pelagic ova.
viii. The young of the ling, *Molva vulgaris* Flem.
ix. On a young eel (*Anguilla vulgaris* Flem.)
x. On the multiple tumours of plaice and flounders.

—— On the phosphorescence of marine animals. Nature, 1885, **32**, 476–481. 1885.3

—— Phosphorescence in living fishes. Rept. Brit. Assoc. Adv. Sci., 55. meet., 1885, 1050–1051. 1885.4

—— Report of the marine laboratory, St. Andrew's. No. 2. June, 1884, to 31st March, 1885. 3. Ann. Rept. Fishery Board Scotland, 1885, Append. F, 55–67. 1885.5

—— Additional remarks on the external aspect of the tunny. Ann. Mag. Nat. Hist., 1886, 5. ser. **17**, 523–525. 1886.1

—— Notes from the St. Andrews Marine Laboratory. III. 4. Ann. Rept. Fishery Board Scotland, 1886, 201–218. pl. — Ann. Mag. Nat. Hist., 1885, 5. ser. **16**, 480–487. pl. 1886.2

i. On the ova of *Callionymus lyra*.
iii. On structures resembling ova procured off the Forth.

—— Notes from the St. Andrews Marine Laboratory. IV. Ann. Mag. Nat. Hist., 1886, 5. ser. **17**, 326–337. pl. 1886.3

On a male tunny (*Orcynus thynnus* L.)

—— Notes from the St. Andrews Marine Laboratory. V. Ann. Mag. Nat. Hist., 1886, 5. ser. **18**, 81–84. 1886.4

On the paternal instincts of *Cyclopterus lumpus* L.

—— Notes from the St. Andrews Marine Laboratory. VI. Ann. Mag. Nat. Hist., 1886, 5. ser. **18**, 307–311. 1886.5

On the very young cod and other food-fishes.

—— On the British weevers, the bib and the poor-cod. Ann. Mag. Nat. Hist., 1886, 5. ser. **17**, 441–443. 1886.6

—— Remarks on the eggs of British marine fishes. Nature, 1886, **34**, 147–148. 1886.7

—— Notes from the St. Andrews Marine Laboratory. VIII. Ann. Mag. Nat. Hist., 1887, 5. ser. **20**, 300–304. 1887.1

i. On a post-larval Labrus, with remarks on the colour of pelvic fins.
ii. On the post-larval condition of *Liparis montagui*.
iii. On a peculiar teleostean yolk-sac.
iv. General remarks on post-larval food-fishes.

—— On the pelagic fauna of our shores in its relation to the nourishment of the young food-fishes. Ann. Mag. Nat. Hist., 1887, 5. ser. **19**, 137–145. 1887.2

—— Report of the St. Andrews Marine Laboratory. IV. 5. Ann. Rept. Fishery Board Scotland, 1887, 354–360. 1887.3

—— Note on the bib and the poor- or power-cod. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 348–351. 1888.1

—— Note on the tarpon or silver king (*Megalops thrissoïdes*) Nature, 1888, **38**, 309. 1888.2

—— Notes from the St. Andrews Marine Laboratory. IX. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 464–472. 1888.3

iii. On a post-larval pleuronectid (sole)
iv. On a post-larval Cottus contrasted with the gadoids.

—— Report from the St. Andrews Marine Laboratory. V. 6. Ann. Rept. Fishery Board Scotland, 1888, 265–276. 1888.4

i. Further remarks on the development and life-histories of the food and other fishes.
ii. On annelids and other forms used for bait.
iii. On *Podalirius typicus* Krøyer, and on *Asterias rubens*.
iv. The pelagic and other fauna of St. Andrews bay.

—— Report of the committee for the purpose of continuing the researches on food-fishes at the St. Andrews Marine Laboratory. Rept. Brit. Assoc. Adv. Sci., 58. meet., 1888, 703. 1888.5

—— The St. Andrews Marine Laboratory (under the Fishery Board for Scotland) Journ. Mar. Biol. Assoc., 1888, **2**, 202–211. 1888.6

Contains a list of papers published since the opening of the Laboratory, extending as far as and including 1887.

—— The eggs of fishes. Bull. U. S. Fish Comm. 1887 (1889), **7**, 58–62. 1889.1

—— On the larval and post-larval stages of the sole and other food-fishes. Abstract in Rept. Brit. Assoc. Adv. Sci., 59. meet., 1889, 618. 1889.2

—— Development and life histories of the teleostean fishes. Edinburgh, 1890. 28 pls. 4°. 1890.1

—— Notes from the St. Andrews Marine Laboratory. XII. On the young stages of the gunnell (*Centronotus gunnellus*) Ann. Mag. Nat. Hist., 1890, 6. ser. **6**, 174–185. 1890.2

McIntosh, *W. C.*

— On the administration of foreign fisheries. Nature, 1890, **41**, 497–500. 1890.3

— On the capture of young (immature) fishes, and what constitutes such. Nature, 1890, **40**, 429–431. 1890.4

— On the pelagic fauna of St. Andrews bay during the months of 1888. II. 8. Ann. Rept. Fishery Board Scotland, 1890, 270–282. 1890.5

— Report on the pelagic ova, larval and young food-fishes procured by the "Garland." 8. Ann. Rept. Fishery Board Scotland, 1890, 283–289. 1890.6

— Additional observations on the development and life-histories of the marine food-fishes, and the distribution of their ova. Abstract in Proc. Roy. Soc. Edinburgh, 1891, **18**, 268–270. 1891.1

— Contributions to the life-history and development of fishes. 2 parts. Edinburgh, 1891–95. 7 pls. 8°. 1891.2

— Further observations on the life-histories and development of the food and other fishes. 9. Ann. Rept. Fishery Board Scotland, 1891, **9**, pt. 3, 317–342. 4 pls. 1891.3

— Contributions to the life-histories and development of the food and other fishes. 10. Ann. Rept. Fishery Board Scotland, 1892, 273–322. 4 pls. *Ibid.*, 11. Ann. Rept., 1893, 221–238. 5 pls. *Ibid.*, 12. Ann. Rept., 1894, 218–230. 3 pls. *Ibid.*, 13. Ann. Rept., 1895, 220–235. 3 pls. *Ibid.*, 14. Ann. Rept., 1896, 171–185. pl. 15. Ann. Rept., 1897, 194–211. 7 pls. 1892.1

— Notes from the St. Andrews Marine Laboratory. XIII. Ann. Mag. Nat. Hist., 1892, 6. ser. **8**, 97–108. pl. 1892.2

i. On the eggs and young stages of the sand-eels.
ii. On the ova and larvæ of certain pleuronectids.

— A sketch of the Scottish fisheries, chiefly in their scientific aspects, during the past decade (1882–1892) Rept. Brit. Assoc. Adv. Sci., 62. meet., 1892, 762–763. 1892.3

— Fish-cultural investigations at St. Andrews Marine Laboratory, Scotland. Bull. U. S. Fish Comm. 1893 (1894), **13**, 241–256. 1894.1

— Notes from the St. Andrews Marine Laboratory. XIV. Ann. Mag. Nat. Hist., 1894, 6. ser. **14**, 189–195. 1894.2

On the ova and larvæ of *Hippoglossus vulgaris, Gadus minutus, Brosmius brosme, Arnoglossus megastoma.*

— On the artificial hatching of marine food fishes. Science Progress, 1894, **2**, 249–264. 1894.3

— Notes from St. Andrews Marine Laboratory. XV. Ann. Mag. Nat. Hist., 1895, 6. ser. **15**, 90–101. 1895.1

On the ova and larvæ of *Gadus virens* L. and the turbot. *Lumpenus lampetræformis* Walb., *Rhombus (Zeugopterus) norvegicus* Günther and *Arnoglossus megastoma* Donov.

— On some results of scientific investigation as applied to fisheries. Rept. Brit. Assoc. Adv. Sci., 65. meet., 1895, 720–723. 1895.2

— Bank's oar-fish (*Regalecus banksii*) in the Moray firth. Ann. Scott. Nat. Hist., 1896, 162. 1896.1

— The Gatty Marine Laboratory and the steps which led to its foundation in the University of St. Andrews. Dundee, 1896. 101 p. illust. 1896.2

— Contribution to the life-histories and development of the food and other fishes. 14. Ann. Rept. Fishery Board Scotland, 1896, 171–185. — 15. Ann. Rept. Fishery Board Scotland, 1897, 194–211. 1896.3

— Notes from the St. Andrews Marine Laboratory. XVI. Ann. Mag. Nat. Hist., 1896, 6. ser. **18**, 44–61. 1896.4

Describes post-larval stages of *Crystallogobius nilssonii, Agonus cataphractus, Drepanopsetta platessoides,* and *Rhombus maximus.*

— On contrasts in the marine fauna of Great Britain. Ann. Mag. Nat. Hist., 1896, 6. ser. **18**, 400–415. 1896.5

Elasmobranchs, Chimæra, and the following-named teleosts are considered: cod, ling, lump-sucker, sand-eel, herring, gunnel and pleuronectids.

— On the occurrence of the pelagic ova of the anchovy off Lytham. Nature, 1896, **54**, no. 1396, 296. 1896.6

— Notes from the Gatty Marine Laboratory, St. Andrews. XVII. Ann. Mag. Nat. Hist., 1897, 6. ser. **19**, 241–261. 1897.1

i. On the life-history of the short-spined sea-scorpion (*Cottus scorpius* L.)
ii. On the life-history of the lumpsucker (*Cyclopterus lumpus* L.)
iii. On the eggs and young of the pollack (*Gadus pollachius* L.)
iv. On the eggs and young of the bimaculated sucker (*Lepadogaster bimaculatus* Donov.)
v. On the spawning of the lesser sand-eel (*Ammodytes tobianus* L.)

—— Note on a post-larval Fierasfer. Irish Naturalist, 1898, **7**, 61–64. pl. 1898.1

—— Note on the memory of fishes. Journ. Mental Sci., 1898, **44**, 231–235. 1898.2

—— On the occurrence of the grey gurnard (*Trigla gurnardus* L.) and its spawning in the inshore and offshore waters. Rept. Brit. Assoc. Adv. Sci., 69. meet., 1899, 787–788. 1899.1

—— On the scientific experiments to test the effects of the closure of certain areas in Scottish seas. Rept. Brit. Assoc. Adv. Sci., 69. meet., 1899, 911–913. 1899.2

—— The resources of the sea, as shown in the scientific experiments to test the effects of trawling and of the closure of certain areas off the Scottish shores. London, 1899. 8°. 1899.3

—— The scientific experiments to test the effects of trawling in the waters of Scotland, 1886–97. Proc. 4. Intern. Congr. Zool. Cambridge, 1899, 170–171. 1899.4

—— On some points in the life-history of the littoral fishes. Rept. Brit. Assoc. Adv. Sci., 70. meet., 1900, 785. 1900.1

—— Sur la présence du rouget gris (*Trigla gurnardus*) et sa ponte dans les eaux littorales et en haute mer. C. R. Assoc. Franç. Adv. Sci., 1900, **28**, pt. 2, 512–514. — Bull. Soc. Centr. Aquicult. Pêche, **12**, 101–108. 1900.2

—— The coloration of marine animals. Ann. Mag. Nat. Hist., 1901, 7. ser. **7**, 221–240. 1901.1

Fishes, p. 230; 233–239.

—— Notes from the Gatty Marine Laboratory, St. Andrews. Ann. Mag. Nat. Hist., 1901, 7. ser. **8**, 216–232. pl. 1901.2

Life-history of the littoral fishes, p. 216–220.

—— Marine fish-destroyers. Harper's Magazine, 1902, **54**, 955–962. 7 figs. 1902.1

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXII. On abnormal coloration in the Pleuronectidæ. Ann. Mag. Nat. Hist., 1902, 7. ser. **10**, 291–296. 1902.2

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXIII. Ann. Mag. Nat. Hist., 1902, 7. ser. **10**, 252–260. pl. 1902.3

An abnormally colored plaice, p. 252–253.
On the example of *Regalecus glesne* Ascanius in the Museum of the University, p. 253–254.
On sharks, etc., captured in nets at St. Andrews, p. 254–255.

—— Note on the egg of the shanny (*Blennius pholis* L.) Rept. Brit. Assoc. Adv. Sci., 73. meet., 1903, 697. 1903.1

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXIV. Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 549–565. 1903.2

The effects of marine piscatorial birds on the food-fishes, p. 551–553.

—— On British fisheries investigations and the international scheme. Rept. Brit. Assoc. Adv. Sci., 73. meet., 1903. 33 p. 1903.3

—— Ichthyology in Japan. Zoologist, 1904, 4. ser. **8**, 247–249. *Ibid.*, 1906, 4. ser. **10**, 143–144. *Ibid.*, 1907, 4. ser. **11**, 450–452. 1904.1

—— On the distribution of marine animals [fishes] Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 117–130. 1904.2

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXVII. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 66–81. 2 pls. & 2 figs. 1906.1

On a very young stage of *Phycis blennoides* Bl., p. 66–72.

—— On the life-history of the shanny (*Blennius pholis* L.) Zeitschr. Wiss. Zool., 1906, **82**, 368–378. pl. 1906.2

—— Photogenic marine animals. Zoologist, 1906, 4. ser. **10**, 1–20. 1906.3

The following-named genera are considered: Pachystomias, Xenodermichthys, Idiacanthus, Ceratias, Halosaurus and Inops.

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXVIII. Ann. Mag. Nat. Hist., 1907, 7. ser. **20**, 169–185. 3 pls. 1907.1

On the porbeagle shark with a large suboral aperture, p. 168–170.

—— Scientific work in the sea-fisheries. Zoologist, 1907, 4. ser. **11**, 201–220; 247–266. 1907.2

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXIX. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 373–375. 1908.1

On a tumour in a plaice.

McIntosh, *W. C.*

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXX. Ann. Mag. Nat. Hist., 1908, 7. ser. **2**, 525–528. 1908.2

i. On an abnormal plaice with a precaudal fin-frill on the left side, p. 525–527.
ii. On *Orthagoriscus mola* Bl., p. 527–528.

—— Notes on the fishes of Japan. IV. Zoologist, 1909, 4. ser. **13**, 256–259. 1909.1

—— Notes from the Gatty Marine Laboratory, St. Andrews. XXXI. Ann. Mag. Nat. Hist., 1910, 8. ser. **3**, 153–180. 2 pls. 1910.1

On a young stage of *Gadus luscus* with bold transverse bars of pigment.

—— Experiments with salmonoids and turbines. Zoologist, 1911, 4. ser. **15**, 241–264. 1911.1

—— On Scottish marine fisheries, 1898–1912. Zoologist, 1912, 4. ser. **16**, 361–380. 1912.1

—— On Scottish sea-fisheries, 1898–1912. Rept. Brit. Assoc. Adv. Sci., 82. meet., 1912, 489–490. 1912.2

—— General remarks on some points in the life-history of the salmon, and a contrast of its oviposition with that of a few other types of teleosteans. Zoologist, 1914, 4. ser. **18**, 281–301. 3 figs. 1914.1

McIntosh, *William Carmichael,* & **Masterman,** *Arthur T.* The life-histories of the British marine food-fishes. London, 1897. xv, 516 p. illust. 8°. 1897.1

Review in Ann. Mag. Nat. Hist., 1897, 6. ser. **20**, 399–403.

McIntosh, *William Carmichael,* & **Prince,** *Edward E.* On the development and life-histories of the teleostean food- and other fishes. Trans. Roy. Soc. Edinburgh, 1890, **35**, 665–946. 28 pls. Also separate; Edinburgh, 1890. 4°. 1890.1

Mack, *Eduard.* Ueber künstliche Fischzucht. Correspbl., Pressburg, 1863, **2**, 107–109; 175–176. 1863.1

MacKay, *A. H.*, & **Prince,** *Edward E.* *See* **Prince** & **MacKay.**

McKay, *Charles L.* A review of the genera and species of the family Centrarchidæ, with a description of one new species. Proc. U. S. Nat. Mus., 1881, **4**, 87–93. — Smithson. Miscell. Collect., 1881, **22**, art. 2. 1881.1

McKendrick, *John Gray* [1841 —] On the respiratory movements of fishes. Journ. Anat. Physiol., London, 1879, **14**, 461–466. pl. 1879.1

McKennie, *M.* Obstructions to the ascent of fish in some of the rivers of Virginia. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 629. 1874.1

MacKenzie, *A. J.* Notes on the whitebait of New Zealand. Trans. Proc. New Zealand Inst., 1903, **35**, 309–310. 1903.1

Mackenzie, (*Sir*) *Francis A.* Brief and practical instructions for the breeding of salmon and other fish artificially. Ann. Mag. Nat. Hist., 1842, **8**, 166–169. Notizen (Froriep), **21**, 257–261. 1842.1

McKenzie, *Kenneth* [1870 —] Unpublished manuscripts of Italian bestiaries. Pub. Mod. Lang. Assoc. Amer., 1905, **20**, 380–433. 1905.1

Codex Riccardiano, 1357. Il libro della natura degli animali. D'uno peschatore e d'un pesie, p. 410.

Mackenzie, *Murdo.* View of the salmon fishery of Scotland, with observations on the nature, habits and instincts of the salmon, and on the law as affecting the rights of parties, etc. With appendix. Edinburgh, 1860. 8°. 1860.1

Mackenzie, *T.* The blood-vascular system, ductless glands and urogenital system of *Amiurus catus*. Proc. Canadian Inst., 1884, n. s. **2**, 418–443. 1884.1

Mackenzie, *T.*, **Macallum,** *A. B.*, **McMurrich,** *James Playfair,* & **Wright,** *R. Ramsay.* *See* **Wright, McMurrich** & others.

McKibben, *Paul S.* Ganglion cells of the nervus terminalis in the dogfish (*Mustelus canis*) [Multipolar nerve cells] Journ. Comp. Neurol., 1914, **24**, 437–443. 2 pls. 1914.1

Mackie, *Samuel Joseph.* Cephalaspis from Old Red Sandstone near Ludlow. Geologist, 1861, **4**, 141. fig. 1861.1

—— Cestraciont fishes of the Chalk. Geologist, 1863, **6**, 161–163. 1863.1

—— On a new species of Hybodus from the Lower Chalk. Geologist, 1863, **6**, 241–246. pl. 1863.2

Mackintosh, *H. W.* On the auditory powers of fishes. Proc. Dublin Univ. Biol. Assoc., 1876, **1**, no. 2, 41–46. 1876.1

—— Note on the microscopic structure of the scale of *Amia calva*. Scient. Proc. Roy. Dublin Soc., 1878, n. s. **1**, 93–95. 2 pls. 1878.1

Mackrill, *Alfred*. A great carp. Bull. U. S. Fish Comm. 1884, **4**, 75. 1884.1

Macks, *J. A.* Adres aan de leden van de eerste kamer der staten general, betreffende het van regerings-wege oprigten eener Nederlandsche kunstmatige vischfokkerij. Amsterdam, 1870. 1870.1

—— Vischfauna van den Rijn en beneden rivieren in Nederland. Vlaard, 1878. 1878.1

Maclagan, *Nellie*. List of edible British fishes, with their English, Latin, French, Italian and German synonyms. 2. Ann. Rept. Fishery Board Scotland, 1884, Append. F, no. 5, 74–77. 1884.1

Maclaren, *M.* Account of a fight between a whale and a sword-fish. Proc. Zool. Soc. London, 1909, 100. 1909.1

Maclay, *Nikolai N. Miklukho. See* **Miklukho-Maklai,** *N. N.*

Macleay, *N. de Miklocho. See* **Miklukho-Maklai,** *N. N.*

MacLeay, *William Sharp* [1792–1865] On the natural arrangement of fishes. Ann. Mag. Nat. Hist., 1841, **9**, 197–207. 1841.1

Macleay, *William*. Notes on specimens of Entozoa and Epizoa taken from a sunfish. Proc. Linn. Soc. New South Wales, 1877, **1**, 12–13. 1877.1

—— Notes on the zoological collections made in Torres straits and New Guinea during the cruise of the "Chevert" [fishes] Proc. Linn. Soc. New South Wales, 1877, **1**, 38. 1877.2

—— The fishes of Port Darwin. Proc. Linn. Soc. New South Wales, 1878, **2**, 344–367. 4 pls. 1878.1

—— Note on *Monacanthus cheverti* Alleyne and Macleay. Proc. Linn. Soc. New South Wales, 1878, **2**, 69–70. 1878.2

—— Descriptions of some new fishes from Port Jackson and King George's sound. Proc. Linn. Soc. New South Wales, 1879, **3**, 33–37. 4 pls. 1879.1

—— Note on a species of Therapon found in a dam near Warialda. Proc. Linn. Soc. New South Wales, 1879, **3**, 15–17. 1879.2

—— On a species of Amphisile from the Palau islands. Proc. Linn. Soc. New South Wales, 1879, **3**, 165–169. pl. 1879.3

—— Notes on some fishes from the Solomon islands. Proc. Linn. Soc. New South Wales, 1880, **4**, 60–64. 1880.1

—— On *Heterodontus* [*Cestracion*] *galeatus*. Proc. Linn. Soc. New South Wales, 1880, **4**, 311–312. 1880.2

—— On the Clupeidæ of Australia. Proc. Linn. Soc. New South Wales, 1880, **4**, 363–385. 1880.3

—— On the Mugilidæ of Australia. Proc. Linn. Soc. New South Wales, 1880, **4**, 410–427. 1880.4

—— Descriptive catalogue of the fishes of Australia. 4 parts. Proc. Linn. Soc. New South Wales, 1881, **5**, 302–444; 510–629. 2 pls. *Ibid.*, 1882, **6**, 1–138; 202–387. 1881.1

—— Descriptive catalogue of Australian fishes. 2 vols. in 1 & suppl. Sydney, 1881. 8°. 1881.2

Vols. i and ii are reprinted from Proc. Linn. Soc. New South Wales, 1881, **5**, pts. 3 & 4, and the Supplement is reprinted from the same serial, 1884, **9**.

—— On two hitherto undescribed fishes well-known in the Sydney market [*Otolithus teraglin; Synaptura nigra*] Proc. Linn. Soc. New South Wales, 1881, **5**, 48–49. 1881.3

—— Contribution to a knowledge of the fishes of New Guinea. 4 parts. Proc. Linn. Soc. New South Wales, 1883, **7**, 224–250; 351–366; 585–598. *Ibid.*, 1884, **8**, 252–280. 1883.1

—— Description of two fishes lately taken in or near Port Jackson [*Chilodactylus mulhallii, Ammotretis zonatus*, n. sp.] Proc. Linn. Soc. New South Wales, 1883, **7**, 366–367. 1883.2

—— The fishes of the Palmer river. Proc. Linn. Soc. New South Wales, 1883, **7**, 69–71. 1883.3

—— Notes on the Pleuronectidæ of Port Jackson, with descriptions of two hitherto unobserved species [*Synaptura fasciata, Lophorhombus cristatus*] Proc. Linn. Soc. New South Wales, 1883, **7**, 11–15. 1883.4

Macleay, *W.*

—— On some newly observed habits of *Ceratodus forsteri.* Zoologist, 1883, 3. ser. **7**, 506–507. 1883.5

—— Notes on a collection of fishes from the Burdekin and Mary rivers, Queensland. Proc. Linn. Soc. New South Wales, 1884, **8**, 199–213. 1884.1

—— On a new and remarkable fish of the family Mugilidæ from the interior of New Guinea. Proc. Linn. Soc. New South Wales, 1884, **8**, 2–6. 2 figs. 1884.2

—— On a new genus of fishes from Port Jackson [*Psilocranium coxii*] Proc. Linn. Soc. New South Wales, 1884, **8**, 439–441. pl. 1884.3

—— Some results of trawl fishing outside Port Jackson. Proc. Linn. Soc. New South Wales, 1884, **8**, 457–462. 1884.4

—— Supplement to the descriptive catalogue of the fishes of Australia. Proc. Linn. Soc. New South Wales, 1884, **9**, 2–64. 1884.5

—— New fishes from the upper Murrumbidgee. Proc. Linn. Soc. New South Wales, 1885, **10**, 267–269. 1885.1

—— Zoology of Australia. Proc. Roy. Soc. Tasmania, 1885, 285–308. 1885.2

Fishes, p. 293–300.

Macleay, *William,* & **Alleyne,** *Haynes Gibbes.* *See* **Alleyne & Macleay.**

Macleay, *William,* & **Miklukho-Maklai,** *Nikolai N.* *See* **Miklukho-Maklai & Macleay.**

McLellan, *Isaac.* The northern pickerel (*Esox lucias*) Amer. Sportsman, 1874, **3**, 241. 1874.1

—— Smelt fishing (*Osmerus viridescens*) Amer. Sportsman, 1874, **3**, 324. 1874.2

Macleod, *D. B.,* & **Farr,** *C. C.* *See* **Farr & Macleod.**

MacLeod, *Jules.* Recherches sur l'appareil reproducteur des poissons osseux; communication préliminaire. Bull. Acad. Roy. Sci. Belgique, 1881, 3. sér. **1**, 500–505. fig. 1881.1

—— Recherches sur la structure de l'appareil reproducteur des téléostéens (2. communication) Bull. Acad. Roy. Sci. Belgique, 1881, 3. sér. **1**, 614–620. 1881.2

—— Recherches sur la structure et le développement de l'appareil reproducteur femelle des téléostéens. Arch. Biol., 1881, **2**, 497–532. 2 pls. 1881.3

McMahon, *Arthur Henry.* Notes on the fauna of Chitral. Journ. Proc. Asiatic Soc. Bengal, Calcutta, 1901, **70**, pt. 2, 1–7. 1901.1

—— Notes on the fauna of Dir and Swat. Journ. Proc. Asiatic Soc. Bengal, Calcutta, 1901, **70**, pt. 2. 1901.2

MacMunn, *A. C.,* & **Cunningham,** *Joseph Thomas.* *See* **Cunningham & MacMunn.**

McMurrich, *James Playfair* [1859—] On the osteology and development of *Syngnathus peckianus* Storer. Quart. Journ. Micr. Sci. London, 1883, n. s. **23**, 623–652. 2 pls. 1883.1

—— The myology of *Amiurus catus* (L.) Gill. Proc. Canadian Inst., 1884, n. s. **2**, 311–351. — Zool. Anz., **7**, 296–299. 1884.1

—— The osteology of *Amiurus catus* (L.) Gill. Proc. Canadian Inst., 1884, n. s. **2**, 270–310. 1884.2

—— The cranial muscles of *Amia calva* (L.), with a consideration of the relations of the post-occipital or hypoglossal nerves in the various vertebrate groups. Stud. Biol. Labor. Johns Hopkins Univ., 1885, **3**, 121–153. pl. 1885.1

—— On the spinal homologues of the cranial nerve components. Science, 1902, n. s. **15**, 578–579. 1902.1

—— The life history of the Pacific salmon. Trans. Canadian Inst., 1911, **9**, 23–44. 3 figs. 1911.1

—— Embryology. 4. ed. Philadelphia, 1913. 8°. 1913.1

—— On the life cycles of the Pacific coast salmon belonging to the genus Oncorhynchus, as revealed by their scale and otolith markings. Trans. Roy. Soc. Canada 1912 (1913), 3. ser. **6**, 9–28. 10 pls. & 8 figs. 1913.2

—— Salmon fisheries of British Columbia. 4. Ann. Rept. Comm. Conservation Canada, 1913, 48–59. 4 pls. 1913.3

—— Notes on the scale markings of the halibut and their bearing on questions connected with the conservation of the fishery. Proc. & Trans. Roy. Soc. Canada 1913 (1914), 3. ser. **7**, pt. 4, 33–41. 3 pls. 1914.1

—— Some further observations on the life histories of Pacific coast salmon as revealed by their scale markings. Proc. & Trans. Roy. Soc. Canada 1913 (1914), 3. ser. **7**, sec. 4, 23–33. 5 figs. 1914.2

McMurrich, *James Playfair*, **Macallum,** *A. B.*, **Mackenzie,** *T.*, & **Wright,** *R. Ramsay*. *See* **Wright, McMurrich** & others.

McNair, *P.* The geology of the Ronken glen and its neighborhood. Trans. Geol. Soc. Glasgow, 1906, **12**, 362–397. 1906.1

MacPherson, *David.* Annals of commerce, manufactures, fisheries and navigation, with brief notices of the arts and sciences connected with them. 4 vols. London, 1805. 4°. 1805.1

Fisheries of New England.

MacPherson, *Hugh Alexander* [1858–1901] A vertebrate fauna of Lakeland, including Cumberland and Westmoreland, with Lancashire north of the sands. Edinburgh, 1892. 552 p. 8°. 1892.1

—— Tunny fish (*Orcynus thynnus*) in the Solway firth. Zoologist, 1896, 3. ser. **20**, 103–104. 1896.1

—— Sea lamprey in Cumberland. Zoologist, 1898, 4. ser. **2**, 365. 1898.1

—— Fishes. Victoria History. County Cumberland, 1901, **1**, 169–176. 1901.1

McQueen, *James M.* Beobachtungen über das Herz eines Elasmobranchiers (*Raja clavata*) Zeitschr. Biol., 1913, **62**, 32–53. 7 figs. 1913.1

Macri, *Saverio.* Osservazioni intorno ad una novella spezie de squalo (*Squalus isodus*) Mem. Accad. Sci. Napoli, 1819, **1**, 55–102. 2 pls. Extract in Bull. Sci. Nat. (Férussac), 1827, **10**, 166–168. 1819.1

M'Skimin, —— History and antiquities of the county and town of Carrickfergus. Belfast, 1811. 12°. 1811.1

List of fish found in the bay of Carrickfergus, p. 173–183.

McWilliam, *J. A.* On reflex excitation of the cardiac nerves in fishes. Proc. Roy. Soc. London, 1884, **38**, 31–41. 1884.1

—— [The physiology of the heart of the eel] Journ. Physiol., 1884, **4** (Suppl.), i–v. 1884.2

—— On the striated muscles in the gills of fishes. Rept. Brit. Assoc. Adv. Sci., 55. meet., 1885, 1077–1078. 1885.1

Macy, *Obed.* History of Nantucket. Boston. 1835. 1835.1

Contains an account of New England fisheries.

Macy, *Zaccheus.* Upon the abundance of fish on the New England coast in former times. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 163. 1873.1

—— A short journal of the first settlement of the island of Nantucket, with some of the most remarkable things that have happened since then to the present time. Coll. Mass. Hist. Soc., 1893, **3**, 155–160. 1893.1

Disappearance of the blue-fish, p. 159.

Maddocks, *L.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 382. 1879.1

Maddox, *Richard Leach.* Some remarks on the parasites found in the nerves, etc., of the common haddock, *Morrhua æglefinus*. Trans. Roy. Micr. Soc. London, 1867, n. s. **15**, 87–99. pl. 1867.1

Mader, *C.* Recherches sur la sardine du golfe de Gascogne. Trav. Soc. Sci. Stat. Zool. Arcachon, 1909, **12**, 125–276. 1909.1

Madörin, *A.* Bemerkungen eines Fischers über den Fischstand unserer schweizerischen Gewässer. Zürich, 1885. 2 p. 4°. 1885.1

Madrid Moreno, *José.* Ueber die morphologische Bedeutung der Endknospen in der Riechschleimhaut der Knochenfische [An abstract, by C. Emery, of a forthcoming Spanish paper] Biol. Centralbl., 1887, **6**, 589–592. 1887.1

The material used for investigation consisted of Belone, Trigla, Carassius, Zoarces and Cyprinodon.

Mächler, *A.*, & **Naegeli,** *L.* *See* **Naegeli & Mächler.**

Mädel, *H.* Pflege und Zucht des Scheibenbarsches (*Mesogonistius chætodon*) Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 123–125. fig. 1915.1

Mädel, *S. Rivulus poeyi.* Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 236. 1910.1

Maehrenthal, *F. C. von.* Tastkörperchen von *Cottus gobio.* Verh. Deutsch. Zool. Ges., 1892. 2. Vers. 1892.1

Mäklin, *Fredrik Wilhelm.* Bidrag till kännedom om insekternas geografiska utbredning i norden med hufvudsakligt afseende på Skandinaviens och Finlands fauna. Inaug. Dissert. Helsingfors, 1853. 42 p. 8°. 1853.1

Pisces, p. 7–8.

—— Om blinda djur. Oefvers. Finsk Vetensk. Soc. Förh., 1863, **6**, 5–9. 1863.1

—— Iktyologiska notiser. Oefvers. Finsk Vetensk. Soc. Förh. 1863–64 (1864), **6**, 26–51. Review in Arch. Naturg., 1868, **34**, 72. 1864.1

Om fiskarnas årliga tillvext i längd, hufvudsakligen efter annotationer gjorda vid södra Saimen under loppet af sommaren 1859, p. 26–41. Om vissa färgförändringar hos fiskarna, p. 41–51.

—— Iktyologiska anteckningar gjorda i Helsingfors om sommaren 1864 hufvudsakligen till utrönande af fiskarnas årliga tillvext i längd. Oefvers. Finsk Vetensk. Soc. Förh. 1864–65 (1865), **7**, 39–57. 1865.1

—— En för Finland ny form af siklöjan [*Coregonus albula*] Oefvers. Finsk Vetensk. Soc. Förh. 1868–69 (1869), **11**, 19–23. 1869.1

—— *Gobio fluviatilis.* Notis. Sällsk. Fauna & Flora Fenn. Förh., 1871, **11** (n. s. **8**), 465. 1871.1

—— Meddelanden beträffande några till Universitetets Zoologiska Museum inlemnade föräringar. Oefvers. Finsk Vetensk. Soc. Förh., 1871, **13**, 10–12. Review in Arch. Naturg., 1872, **38**, 102. 1871.2

Maendli, —— Die Vorwürfe des Herrn Nationalrath Scheuchzer gegen die züricherischen Fischzuchtanstalten. Zentralbl. Jagd-, Hundeliebhaber & Fischereiwesen, 1890, **6**, 184. Also separate; St. Gallen, 1890. 1 p. 4°. 1890.1

Mændli, *J.* Der Lachsfang mit der Garnfalle. Schweiz. Fischerei Zeitg., 1893, **1**, 64. Also separate; Pfäffikon-Zürich, 1893. 1 p. 8°. 1893.1

Maes, *L.* Notes sur la pêche fluviale et maritime en Belgique. Bruxelles, 1898. figs. 8°. 1898.1

Maffei, *Scipione.* Compendio della Verona illustrata principalmente ad uso de' forestieri (per opera di Pietro Montanari) coll' aggiunta del Museo Lapidario e d' altre notizie importanti e nuovi rami. Verona, 1795. illust. 1795.1

" Colle notizie del monte Bolca, della sua pesciaia e degli annessi monti Colonnari stese da G. Tommaselli. Le tavole che riguardano al Bolca sono otto."

Magendie, *François,* & **Desmoulins,** *A. See* **Desmoulins & Magendie.**

Maggi, *Leopoldo.* Intorno ad alcuni microrganismi patologici trotelle. Boll. Scient., Pavia, 1883, **5**, 18–22. 1883.1

—— Uno schiarimento a proposito delle ossa bregmatiche nei fossili. Boll. Scient., Pavia, 1897, **19**, 125–126. 1897.1

—— Serie di ossicini mediani del tegmen cranii in alcuni cani (Canis) e loro omologhi ed omotipi in alcuni storioni (Acipenser) Rendic. Istit. Lombardo Sci., Milan 1898 (1899), 2. ser. **31**, 1473–1492. pl. 1899.1

—— Intorno ai prefrontali degli ittiopsidi e sauropsidi. Rendic. Istit. Lombardo Sci., Milan, 1903, 2. ser. **36**, 903–918. 1903.1

Maggi, *Leopoldo,* & **Balsamo-Crivelli,** *G. See* **Balsamo-Crivelli & Maggi.**

Magini, *B.* L'orientation des nucléoles des cellules nerveuses motrices dans le lobe électrique de la torpille, à l'état de repos et à l'état d'excitation. Arch. Ital. Biol., 1894, **22**, 212–217. 1894.1

Magliere, *C.* Ueber die toxische, immunisierende und bactericide Eigenschaft des Aalblutes. Ann. d'Igiene Sperimentale, Roma, 1898. 1898.1

Maglio, *C.* Gli storioni delle acque pavesi. Rendic. Istit. Lombardo Sci., Milano, 1901, 2. ser. **34**, 1143–1148. 1901.1

Magnan, *A.* Influence de différents régimes alimentaires sur la croissance des truites arc-en-ciel. Bull. Mus. Hist. Nat. Paris, 1912, 392–394. 1912.1

Magnan, *A.,* & **La Riboisière,** *J. de.* Le nombre de myotomes chez les

poissons. C. R. Assoc. Franç. Avanc. Sci., 41. sess., 1912, 453–456. 1912.1

—— Nouvelles recherches sur la densité des poissons. C. R. Assoc. Franç. Avanc. Sci., 41. sess., 1912, 450–453. 1912.2

Magnani-Ricotti, *G.* La pesca marittima in Italia; mali e rimedi. Rivist. Marittima, Roma 1898 (1899), 1–8. 1899.1

—— Le condizioni della pesca in Italia. Rivist. Marittima, Roma 1899 (1900), 1–15. 1900.1

Magnier, *Edmond.* Description de l'aquarium (In Exposition internationale de pêche et l'aquarium. Boulogne-sur-Mer, 1866. 15 p. 8°) 1866.1

—— L'exposition internationale de pêche de Boulogne-sur-Mer. Paris, 1866. 73 p. 8°. 1866.2

An article concerning this work by Fr. Passy in Journ. Economist., 1867, p. 309.

Magnus, *R.* Beiträge zur Pupillarreaction des Aal- und Froschauges. Zeitschr. Biol., 1899, **38**, 567–606. 2 pls. 1899.1

Mahalanobis, *S. C.* Microscopical observations on muscle fat in the salmon. 18. Ann. Rept. Fishery Board Scotland, 1898, pt. 2, 106–111. 4 pls. 1898.1

Mahler, *Edward.* Das Fischsymbol auf ägyptischen Denkmälern. Zeitschr. Deutsch. Morgenländ. Gesell., Leipzig, 1913, **67**, 37–48. 1913.1

Mahn, *R.* Untersuchungen über das physiologische Verhalten des Schleiendarmes. Arch. Ges. Physiol., 1898, **72**, 273–305. 18 figs. 1898.1

Maier, *Hermann Nicolaus.* Beiträge zur Altersbestimmung der Fische. I. Allgemeines. Die Altersbestimmung nach den Otolithen bei Scholle und Kabeljau. Wiss. Meeresuntersuch. Kiel (Abth. Helgoland), 1906, n. s. **8**, 57–115. 2 pls. & 31 figs. — Allgem. Fischerei Zeitg., **32**, 26–32. 7 figs. 1906.1

Review by R. J. Schubert in Neues Jahrb. Mineral., 1908, **2**, 130–131.

—— Neue Beobachtungen über das Hörvermögen der Fische. Arch. Hydrobiol. Planktonkde, 1909, **4**, 393–397. Allgem. Fischerei Zeitg., **34**, 125–128. 1909.1

—— Biologische Beobachtungen an Blaufelchen (*Coregonus wartmanni*) im Bodensee während der Laichzeit 1909. Allgem. Fischerei Zeitg., 1910, **35**, 5–9. 1910.1

Maillard, *L.* Notes sur l'île de la Réunion (Bourbon) Avec l'histoire naturelle, etc. 2 vols. in 1. Paris, 1862. 42 maps & pls. 8°. 1862.1

Vol. ii, C. Fauna ichthyologique, par M. Guichenot. 32 p.

—— The same. 2. ed. Paris, 1863. 2 vols. & atlas. 8°. 1863.1

—— Un poisson rare, la loche d'étang (*Cobitis fossilis*) provenant d'une localité inédite. Bull. Soc. Sci. Nancy, 1900, 3. sér. **1**, 176–177. 1900.1

Maillieux, *Eugène.* Découverte d'une dent de poisson dans les schistes de Frasnes, à Philippeville. Bull. Soc. Belge Géol., 1909, **22** (*Proc. Verb.*), 288–289. 1909.1

Maingaud, *Ed.* L'introduction, l'acclimatation et la multiplication du poisson soleil des Etats-Unis (*Eupomotis gibbosus*) dans la rivière l'Isle, affluent de la Dordogne. Bull. Soc. Acclim. Paris, 1900, **47**, 273–276. 1900.1

Mainwaring, *William Frederic Barton Massey. See* **Massey-Mainwaring,** *W. F. B.*

Mair, *G.* Notes on fish found in the Piako river. Trans. Proc. New Zealand Instit., 1903, **35**, 319–320. 1903.1

Maison, *Emile.* Mœurs et pêche de l'anguille. Etangs & Rivières, 1896, 9. année, 186–189. 1896.1

—— Le nid de l'*Amia calva.* Etangs & Rivières, 1897, 10. année, no. 235, 234–285. 1897.1

—— Note sur le nid d'Amia. Etangs & Rivières, 1897, 10. année, no. 233, 241–247. 1897.2

—— La pêche au Canada. L'ouananiche. Etangs & Rivières, 1897, 10. année, no. 225, 117–122. 1897.3

—— Le silure. Cosmos, 1898, 47. année, **2**, 362–365. fig. 1898.1

—— Au Canada et au Labrador. L'ouananiche. Cosmos, 1899, n. s. **41**, 8–12. 3 figs. 1899.1

—— La sandre. Cosmos, 1899, n. s. **41**, 742–745. fig. 1899.2

—— La perche et la sagittaire. Cosmos, 1905, n. s. **53**, 48–50. fig. 1905.1

Maison, *E.*

—— L'ombre blanc. Cosmos, 1905, n. s. **53**, 458–459. fig. 1905.2

—— Pisciculture. Transport à sec des poissons vivants. Cosmos, 1906, n. s. **55**, 75–76. 1906.1

Maitland, *(Sir) James Ramsay Gibson* [1848–1897] The culture of Salmonidæ and the acclimatization of fish. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **6**, pt. 2. 1883.1

—— Exchange of landlocked salmon eggs from Maine, for loch Leven trout ova from Scotland. Bull. U. S. Fish Comm. 1884, **4**, 114. 1884.1

—— On stocking rivers, lakes, etc., with Salmonidæ. Stirling, 1892. 8°. 1892.1

Maitland, *R. T.* Systematische beschrijving der dieren, welke in Noord-Nederland of aan deszelfs kusten voorkomen, met bijvoeging van derzelver synonymen, benevens de plaatsen, waar dezelve gevonden zijn, gerangschikt naar J. van der Hoeven's Handboek der dierkunde. 2. ed. Leiden, 1851. 8°. 1851.1

—— Visch een surrogaat voos vleesch. Amsterdam, 1854. 1854.1

—— De klomp- af molensteen-visch [*Mola aspera* Bonap.] Jaarb. Zool. Genootsch., Amsterdam, 1859, 140–150. 1859.1

—— De moddervisch (*Lepidosiren* [*Protopterus*] *annectens*) Nederl. Tijdschr. Dierk., 1863, 1. Jahrg., 65–69. 1863.1

Maitre, *L.* La faune du Jura. Actes Soc. Jurass. Emul., 1909, 2. ser. **15**, 79–99. *Ibid.*, 1911, 2. ser. **16**, 17–48. 1909.1

Major (*pseudon.*) Does the western salmon [*Oncorhynchus quinnat*] die after spawning? Chicago Field, 1879, **11**, 221. 1879.1

Major, *Charles Immanuel Forsyth.* Alcune parole sullo *Sphærodus cinctus* (di Lawley) del Pliocene Volterrano. Atti Soc. Tosc. Sci. Nat. Pisa, 1879, **4**, 111–116. — Neues Jahrb. Mineral., 1880, **2**, 390–391. 1879.1

Majunke, —— Klassifizirung der Fischerei-Gewässer für Genossenschaftszwecke. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 5, 186–193. 1875.1

Makarenko, *A. A.* Der Edelfischfang auf dem Angaraflusse. St. Petersburg, 1902. 56 p. 10 figs. 6 maps. 1902.1

Makarius, *S.* Syrian fishes with abnormal eyes. Nature, 1898, **58**, 149. 1898.1

Maksimov, *N. E.* Zwei Tripterygium-Arten aus dem Schwarzen Meere [Text in Russian] Trav. Soc. Nat. Univ. Charikov, 1909, **42**, 59–63. 1909.1

—— *Blennius macropteryx* Rüpp. im Schwarzen Meere [Text in Russian] Prot. Obsč. Isp. Prir., Charikov, 1912, **1**, 3–4. 1912.1

—— [La biologie des poissons importants au point de vue industriel et leur pêche dans la mer Noire près des côtes de Bulgarie et de Roumanie] Ann. Mus. Zool. Acad. Sci., 1913, **18**, 1–52. 1913.1

—— Ueber den Charakter der offenen Limane der Nordwest-Küste des Schwarzen Meeres. Mater. Pozn. Russk. Rybolow, St. Petersburg, 1913, **2**, no. 10, 33–74. 1913.2

Fossil fishes are mentioned.

Malaguti, *F. J.* Analyse du guano-poisson de Norwège. Les Mondes, 1864, **4**, 258. 1864.1

Malaise, *Constantin Henri Gérard Louis* [1834—] Sur la découverte de poissons dévoniens dans le bord nord du bassin de Namur. Bull. Acad. Sci. Belgique, 1887, 3. ser. **14**, 771–772. 1887.1

Malaquin, *Alphonse G.* Le *Coryphodon gosseleti* (n. sp.) et la faune de l'Eocène inférieur (Landénien-Thanetien) de Vertain. Ann. Soc. Géol. Nord, 1900, **28**, 257–270. pl. & 2 figs. 1900.1

Teeth of Lamna, Otodus, Oxyrhina and Lepidosteus.

Malard, *A. Eugène.* Catalogue des poissons des côtes de la Manche dans les environs de Saint-Vaast. Bull. Soc. Philom. Paris, 1890, 8. sér. **2**, 60–101. 1890.1

—— Sur le développement et la pisciculture du turbot. C. R. Acad. Sci. Paris, 1899, **129**, 181–183. 1899.1

Malard-Duméril, —— Recherches sur les pleuronectes. Bull. Pêches Marit., 1898, **6**, 274–276. 1898.1

Malassez, *L.* De la numération des globules rouges du sang chez les mammifères, les oiseaux et les poissons. C. R. Acad. Sci. Paris, 1872, **75**, 1528–1531. — Arch. Sci. Phys. Nat., **48**, 165–168. 1872.1

Raja, Torpedo, Hippocampus, turbot and sole are mentioned among fishes.

Malcolmson, *John G.* On the occurrence of Wealden strata at Linksfield, near Elgin; on the remains of fishes in the Old Red Sandstone of that neighbourhood; and on raised beaches along the adjacent coast. Proc. Geol. Soc. London, 1838, **2**, 667–669. 1838.1

Remains of *Holoptychius nobilissimus.*

—— On the relations of the different parts of the Old Red Sandstone, in which organic remains have recently been discovered, in the counties of Murray, Nairn, Banff, and Inverness. Proc. Geol. Soc. London, 1842, **3**, 141–144. — Quart. Journ. Geol. Soc. London, **15**, 336–352. pl. 1842.1

Dipterus macrolepidotus, Holoptychius nobilissimus and other ganoids, also Coccosteus.

Malenück, *W. D.* Zur Chemie der Protamine. I. Mitteilung. Ueber das Protamin aus den Spermatozoen des kaspischen Störs, *Acipenser guldenstädtii.* Zeitschr. Physiol. Chem., 1908, **57**, 99–112. 1908.1

Malischeff, *Pierre.* Notice sur un essai de fécondation artificielle des poissons, fait aux mines et usine de Nijné-Taguilsk (Russie) Bull. Soc. Acclim. Paris, 1856, **3**, 583–593. 1856.1

Mallet, —— Considérations sur la pêche côtière; comment elle se fait depuis la baie de St. Brienne jusqu'à l'entrée de la rivière de Bordeaux. Application de la vapeur à cette pêche. Brest, 1866. 8°. 1866.1

—— Mémoire sur l'établissement d'une institution financière de crédit, en vue d'améliorer la condition commerciale des marins français engagés dans l'industrie de la pêche côtière. Paris, 1866. 8°. 1866.2

Malling, *C.*, & **Grönwall,** *K. A.* A fauna in the Lias of Bornholm [Text in Danish] Medd. Dansk. Geol. Foren., Kjøbenhavn, 1909, **15**, 271–312. 2 pls. 1909.1

Malloch, *P. D.* Life history and habits of the salmon, sea-trout, trout, and other fresh-water fish. London, 1910. 239 p. figs. 4°. 1910.1

Malm, *August H.* [Description of A. W. Malm's method of preservation of spirit specimens] Naturhist. Museum's Arsskr., Göteborg, 1882, **3**, 13–20. 1882.1

—— Report on the sea-fishery of the district of Gothenburg and Bohus during 1902–1903 [Text in Swedish] Hushålln.-Sällsk. Qvartalsskr., Göteborg, 1903, 237–303. 1903.1

Malm, *August Wilhelm* [1821–1882] Något om bukfenorna hos slägtet Phycis Artedi, 1738. Förh. Skand. Naturf., 1851, **6**, 234–237. 1851.1

—— *Hemiramphus balticus* Hornsch. Froriep's Tagesber. (*Zool.*), 1852, no. 467, p. 264. 1852.1

—— Ichthyologiska anmärkningar. Oefvers. Vetensk. Akad. Förh., Stockholm, 1852, **9**, 224–234. pl. 1852.2

—— Om *Syngnathus typhle* och *acus.* Oefvers. Vetensk. Akad. Förh., Stockholm, 1852, **10**, 82–92. 1852.3

—— De flundre-artade fiskarnas kroppsbyggmad är mera skenbart än verkligt osymmetrisk. Oefvers. Vetensk. Akad. Förh., Stockholm, 1854, **11**, 173–183. 1854.1

—— Beskrifning öfver en för Skandinaviens fauna ny art af slägtet Raja, jemte bidrag till utvidgad kännedom af trenne andra, vår fauna tillhörande arter af samma slägte. Oefvers. Vetensk. Akad. Förh., Stockholm, 1858, **14**, 187–198. 1858.1

—— Bemærkninger over Sverrigs Petromyzontidæ. Förh. Skand. Naturf., 1860, **8**, 577–582. 1860.1

—— Række af fiske, krebsdjur og bloddjur, som ere nye for den Skandinaviske fauna. Förh. Skand. Naturf., 1860, **8**, 616–624. 1860.2

—— Ueber skandinavische Fischzucht, vorzüglich des Lachses [Text in Swedish] Göteborg, 1860–63. 2 pls. 1860.3

—— Läsning för fiskare i Bohuslän. Göteborg, 1861. 56 p. 8°. 1861.1

—— Note sur la reproduction des parties de l'organisme et sur leur multiplication chez certains animaux et plus particulièrement chez un syngnathe à deux queues. Ann. Sci. Nat. (*Zool.*), 1862, 4. sér. **18**, 356–358. 4 figs. 1862.1

Malm, *A. W.*

—— Nya fiskar, kräft- och blod-djur för Skandinaviens fauna. Vetensk. Handl. Göteborg, 1863, **8**, 95–132. 1863.1

—— Om de Skandinaviska arterna af familjen Petromyzontidæ. Vetensk. Handl. Göteborg, 1863, **8**, 83–93. 1863.2

—— Om sjöbruk i allmänhet och Lax-afvel i synnerhet. Göteborg, 1863. 2 pls. 8°. 1863.3

—— Ichthyologiska bidrag till Skandinaviens fauna. Förh. Skand. Naturf., 1865, **9**, 405–414. 1865.1

—— Om tvåkönad sill. Förh. Skand. Naturf., 1865, **9**, 415–418. 1865.2

—— Bidrag till kännedom af Pleuronektoidernas utveckling och byggnad. Svensk. Vetensk. Akad. Handl., 1868, **7**, no. 4, 1–28. 2 pls. 1868.1

—— Beskrifning på tre för den Skandinaviska faunan nya fiskarter, samt bidrag till närmare kunskap om *Trigla gurnardus*. Oefvers. Vetensk. Akad. Förh., 1871, **27**, 825–852. 1871.1

—— [Ueber einige Fälle von Zweigeschlechtlichkeit, welche er für Zwillingsbildung erklärt, beim Hering (*Clupea harengus* L.) und der Makrele (*Scomber scombrus* L.) Sitzber. Ges. Naturf. Freunde Berlin, 1873, 94–98. 1873.1

—— Om den brednäbbade kantnålens, *Siphonostoma typhle* Yarrell. Lund, 1874. 4°. 1874.1

—— [Om de svenske gobiider] Förh. Skand. Naturf. 1873 (1874), **11**, 380–386. 1874.2

—— Om lifvet i Kattegattet, etc. [Ueber das Thierleben des Meeres im Nordsee] Kjöbenhavn, 1874. 8°. 1874.3

—— [Om sammanväxta tvillingar af *Scomber scombrus*, det är om "ett tvåkönadt exemplar" af denna fiskart] Förh. Skand. Naturf. 1873 (1874), **11**, 392–394. 1874.4

—— Om *Thynnus pelamys* och *Balistes maculatus* i Skandinav. Stockholm, 1875. fig. 8°. 1875.1

—— Om två för den Skandinaviska faunan nya, egentligen tropisk-subtropiska fiskart, hvilka förvaras uti Uddevalla Museum. Oefvers. Vetensk. Akad. Förh., 1875, **32**, no. 7, 3–11. 1875.2

—— Om en för den Skandinaviska faunan ny hajart [*Scyllium stellare*] Oefvers. Vetensk. Akad. Förh. 1875 (1876), **32**, no. 10, 33–41. 1876.1

—— Bidrag till kännedom om utvecklingen af Rajæ. Oefvers. Vetensk. Akad. Förh. 1876 (1877), **33**, no. 3, 91–102. pl. 1877.1

—— Göteborgs och Bohusläns fauna. Ryggradsdjuren. Göteborg, 1877. 674 p. 9 pls. 8°. 1877.2

—— Hermaphroditisme chez les poissons. Abstract in Journ. Zool. (Gervais), 1877, **6**, 51–52. pl. 1877.3

—— Om monœcism hos fiskar. Oefvers. Vetensk. Akad. Förh. 1876 (1877), **33**, no. 5, 67–78. 3 pls. 1877.4

—— Sur le développement des raies. Journ. Zool. (Gervais), 1877, **6**, 180. 1877.5

—— [Bidrag till pleuronektoidernas utveckling och byggnad] Förh. Skand. Naturf., 1880, 479–480. 1880.1

—— Bohus-sillen [*Clupea harengus*] Göteborg, 1880. 8°. 1880.2

—— Oefver Göteborgs och Bohusläns hafs fisken under 1886–92. Göteborg, 1887–93. 1887.1

Malmberg, *Aukusti Johana*, afterwards **Mela,** *A. J.* Kalojen mietteet. Kirj. Kuuk., 1875, **10**, 77–79. 1875.1

—— Kalakeittoa. Suom. Kuval., 1876, **4**, 108–111. 1876.1

Malme, *Gustaf Oskar Andersson* [1864—] Studien über das Gehirn der Knochenfische. Svensk. Vetensk. Akad. Handl., 1891, **17**, 1–60. 5 pls. Also separate; Stockholm, 1892. 60 p. 5 pls. 8°. 1892.1

Malmer, *H.* Snoken som fiskare. Fiskeritidskr., 1895, **4**, 150. 1895.1

Malmgren, *Anders Johan* [1834–1897] Kritisk öfversigt af Finlands fisk-fauna. 2 pts. Helsingfors, 1863–67. 75 p. 8°. 1863.1

Translated into German by Dr. C. F. Frisch. Arch. Naturgesch., **30**, pt. 1, 259–351.

—— Der grosse Fischreichthum bei Spitzbergen und der Bären Insel, nachgewiesen durch die neuesten schwedischen Untersuchungen. Geogr. Mitth. (Petermann), 1865–67, **4**, no. 16, 34–39. 1865.1

Translated into German by Dr. C. F. Frisch.

—— Om Spetsbergens fisk-fauna. Oefvers. Vetensk. Akad. Förh. 1864 (1865), **21**, 489–539. Abstract in Arch. Naturgesch., 1865, **31**, 84–85. 1865.2

—— Vetenskapligt bihang till Svenska Spetsbergs-Expeditionen 1864 (In Nordenskiöld, A. E. Svenska expeditionerna till Spetsbergen och Jan Mayen utförda under åren 1863 och 1864, p. 240–261. Stockholm, 1867) Also separate. Stockholm, 1868. 21 p. 1867.1

—— Bidrag till Finmarkens fiskfauna. Oefvers. Vetensk. Akad. Förh. 1867 (1868), **24**, 259–265. Abstract in Arch. Naturgesch., 1868, **34**, 74. 1868.1

—— Fiskodlingen förordad i Finland för ett sekel sedan. Tidskr. Fiskerinär. Aquikult. (Malmgren), 1869, 1. Jahrg., 36–37. 1869.1

—— Handlingar och förordningar ang. Finlands fiskerier. Helsingfors, 1869–70. 8°. 1869.2

—— Om nödvändigheten att freda laxen under och langst före dess lektid. Tidskr. Fiskerinär. Aquikult. (Malmgren), 1869, 1. Jahrg., 67–73. 1869. 3

—— Postscriptum [till v. Siebold. Om laxfiskars acclimatisation i Australien och Nya Zeeland] Tidskr. Fiskerinär. Aquikult. (Malmgren), 1869, 1. Jahrg., 24–25. 1869.4

—— Till laxens (*Salmo salar* L.) naturalhistoria. Tidskr. Fiskerinär. Aquikult. (Malmgren), 1869, 1. Jahrg., 64–66. 1869.5

—— Utlåtande till Guvernören öfver Abo och Björneborgs län i fråga om notdrägt i saltsjön under fjällfiskens lektid. Tidskr. Fiskerinär. Aquikult. (Malmgren), 1869, 1. Jahrg., 87–94. 1869.6

—— Utlåtande till Guvernören öfver Uleåborgs län, med anledning af väckt fråga om Toppila sunds förvandlande till skeppshamn för Uleåborgs stad. Helsingfors, 1869. 11 p. 8°. 1869.7

—— *Cottus quadricornis* i Puruvesi. Oefvers. Vetensk. Akad. Förh. Stockholm 1869 (1870), **12**, 104. 1870.1

—— Om förekomsten af djurlif på stora hafsdjup. Oefvers. Vetensk. Akad. Förh. Stockholm 1869 (1870), **12**, 40–49. 1870.2

—— Ichtyologiska notiser. Notis. Sällskap. Fauna & Flora Fenn. Förh., 1871, **11** (n. s. **8**), 464. 1871.1

—— [*Coregonus megalops* från Loppis] Fauna & Flora Fenn. Förh., 1871–74, **13** (n. s. **10**), 451. 1874.1

—— Memorial addressed to the Bureau of Agriculture of the Imperial Senate for Finland, January 20, 1883, in regard to the advisability of introducing artificial fish-culture in Finland. Translated from the German by Herman Jacobson. Bull. U. S. Fish Comm. 1883, **3**, 363. 1883.1

—— Utlåtande, angående lämpligheten af artificiel fiskodlings införrande i Finland, afgifvet till jordbruksexpeditionen i kejserliga Senaten. Helsingfors, 1883. 83 p. 8°. 1883.2

—— Laxens (*Salmo salar* L.) vandringar i Oestersjön. Sporten, 1884, no. 2, 18–19. 4 figs. — Bohuslänsk Fiskeritidskr., 1884, **1**, 50–57. — Bull. U. S. Fish Comm. 1884, **4**, 322–328. 4 figs. — Nature, **30**, no. 778, 521–522. 1884.1

—— The migrations of the salmon [*Salmo salar* L.] in the Baltic. Bull. U. S. Fish Comm. 1884, **4**, 322–328. Abstract in Nature, 1884, **30**, 521–522. 1884.2

—— Relation om timmerflottningen i Konungarikena Sverige och Norge, afgifven till Jordbruks-Expeditionen i Kejserliga Senaten för Finland d. 30 Nov. 1884. Helsingfors, 1884. 79 p. 8°. 1884.3

—— Till chefen för Jordbruks-Expeditionen i kejserliga Senaten m. m. O. Norrmén. Helsingfors, 1885. 8 p. 8°. 1885.1

—— Vårt fiskeriväsende. Helsingfors, 1887. 7 p. 8°. 1887.1

—— *Silurus glanis* från Kymmene. Meddel. Soc. Fauna & Flora Fenn., 1888–89, **15**, 195. 1888.1

Malmgren, *Hjalmar.* Om transport af lefvande fisk. Helsingfors, 1887. 7 p. pl. 8°. 1887.1

Malmros, *Oscar.* Preserving fish in Scotland by the Roosen process. Bull. U. S. Fish Comm. 1886 (1887), **6**, 109–110. 1887.1

Malwitz, —— Sur le transport de quelques poissons. Beschäft. Berlin. Ges. Naturf. Freunde, [1779] **4**, 915. 1779.1

Man, *J. C. de.* Visschen, list van eetbaren zeevisch (In Nederland; bijdragen tot de geneeskundige plaatsbeschrijving van Nederland, 85–87 [Amsterdam] 1870) 1870.1

Manca, *Gr.* Trypanosomes du lapin et de l'anguille en Sardaigne. C. R. Mém. Soc. Biol. Paris, 1906, **1**, 494. 1906.1

Mandée, *Rudolf.* Die Labyrinthfische (Labyrinthici) II. Zucht, Pflege und Fortpflanzung. Natur u. Haus, 1907, 15. Jahrg., 311–315. fig. 1907.1

—— *Pœcilia reticulata* Peters. Natur u. Haus, 1907, 16. Jahrg., 42–45. 1907.2

—— Ein Rückblick auf das Jahr 1910. Jahrb. Aquar.-Terrar. Freunde, 1911, 7. Jahrg. 133 p. figs. 1911.1

Mandel, *J. A.*, & **Levene,** *P. A.* *See* **Levene** & **Mandel.**

Mandell, *D. W.* Pickerel in Adirondack waters. Forest & Stream, 1876, **6,** 198. 1876.1

Mandelslohe, (*Count*) *Friedrich von.* Abbildung einer Gaumenplatte von *Gyrodus umbilicus* Ag. Jahresh. Ver. Vaterl. Naturk. Württemb., 1845, 1. Jahrg., 2. Heft, p. 153. 1845.1

Mandeville (*Sir*) *John* (*pseudon.*) [*circa* 1350?] The travels of Sir John Mandeville. The version of the Cotton MS in modern spelling. London, 1915. 390 p. 1915.1

This edition contains the three original accounts upon which the spurious tales of travel were based, namely, The voyage of Johannes de Piano Carpini, p. 213–260. The journal of Friar William de Rubruquis, p. 261–325. The journal of Friar Odoric, p. 326–362. Various references to fishes occur.

Mandl, *Louis* [1812–1881] Note pour la rectification d'une figure relative aux recherches sur la structure intime des écailles des poissons, publiée dans le tome xi, page 337. Ann. Sci. Nat. (*Zool.*), 1839, 2. sér. **12,** 293. 1839.1

—— Recherches sur la structure intime des écailles des poissons. Ann. Sci. Nat. (*Zool.*), 1839, 2. sér. **11,** 337–371. pl. — Edinb. New Phil. Journ., **28,** 113–126; 274–287. — Neue Notizen (Froriep), **13,** 225–234; 241–248; 262–265. Extract in C. R. Acad. Sci. Paris, **8,** 1021–1022. — Ann. Nat. Hist., **3,** p. 463. — Rev. Zool., 1839, p. 191. 1839.2

—— Nouvelles observations sur la structure des écailles des poissons; extrait d'une lettre . . . à l'occasion des remarques de M. Agassiz. Ann. Sci. Nat. (*Zool.*), 1840, 2. sér. **13,** 62–63. — C. R. Acad. Sci. Paris, **10,** 338–339. 1840.1

Mandoul, ——, & **Camichel,** —— *See* **Camichel** & **Mandoul.**

Mandt, *Martin Wilhelm* [1799—] Observationes in historiam naturalem et anatomiam comparatam in itinere Grœnlandico factæ. Inaug. Dissert. Berolini, 1822. viii, 40 p. 8°. 1822.1

Manetti, *L.* Manuale del pescatore. Milano, 1905. xv, 246 p. illust. 12°. 1905.1

Mangoldt, *Ernst.* Ueber das Leuchten der Tiefseefische. Arch. Ges. Physiol., 1907, **119,** 583–601. 4 figs. 1907.1

—— Tierisches Leben in der Tiefsee. Berlin, 1912. 30 p. 8°. 1912.1

Manhattan (*pseudon.*) Fish in the Pelham brook. Forest & Stream, 1877, **9,** 23. 1877.1

—— The Hudson river salmon. Forest & Stream, 1877, **8,** 420. 1877.2

—— Sea trout. Forest & Stream, 1877, **8,** 208. 1877.3

Manigault, *G. E.* On the probable source of the phosphorus in the South Carolina phosphates. Proc. Elliott Soc. Sci. Art, Charleston, S. C., 1886, **2,** 128–132. pl. 1886.1

Teeth of Carcharodon and Carcharias are figured.

Manley, *John Jackson.* Notes on fish and fishing. New York & London, 1877. viii, 363 p. 8°. 1877.1

The literature of fishing, p. 32–70.

—— Literature of sea and river fishing. Intern. Fisheries Exhib. Lit., London, 1883. Handbooks, **3,** pt. 5, 527–716. 1883.1

—— American fish introduced in English waters. Bull. U. S. Fish Comm. 1884, **4,** 60. 1884.1

Mann, (*l'Abbé*) *A. T.* Mémoire sur l'histoire naturelle de la mer du Nord, et sur la pêche qui s'y fait. Mém. Acad. Roy. Sci. Bruxelles, 1780, **2,** 157–220. 1780.1

Mann, *Horace* [1844–1868] [Letter in relation to the method of flight of the flying-fish] Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10,** 21–22. — Ann. Mag. Nat. Hist., 1866, 3. ser. **17,** 397–398. — Amer. Journ. Sci., 1866, 2. ser. **41,** 272–273. 1866.1

Mann, *William M.*, & **Starks,** *Edwin Chapin.* *See* **Starks** & **Mann.**

Manning, *C. G.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 465. 1879.1

Manoncourt, *Charles Nicolas Sigisbert Sonnini de. See* **Sonnini de Manoncourt,** *C. N. S. de.*

Manouélian, *Y.* Recherches sur le lobe optique. C. R. Mém. Soc. Biol. Paris, 1899, 11. sér. **1**, 863–864. 1899.1

Describes fibres functioning for the reception of nervous stimuli.

Mantell, *Gideon Algernon* [1790–1852] The fossils of the South Downs; or illustrations of the geology of Sussex. London, 1822. xiv, 327 p. 42 pls. 4°. 1822.1

Elasmobranchs and teleosts are considered.

—— Outlines of the natural history of the environs of Lewes (In Horsfield, Thomas Walker. The history of antiquities of Lewes and its vicinity, etc. 2 vols. Lewes, 1824–27. illust. 4°) 1824.1

—— Figures and descriptions of the *Salmo lewesiensis* and other fishes from the Lewes Chalk. Lewes, 1826. pl. fol. 1826.1

—— The geology of the south-east of England. London, 1833. xix, 415 p. 7 pls. 8°. 1833.1

—— The wonders of geology; or, a familiar exposition of geological phenomena; being the substance of a course of lectures delivered at Brighton. 2 vols. London, 1838. illust. 1838.1

Placoderms, elasmobranchs, ganoids and teleosts.

Other editions were published in 1839, 1848 and 1857–58.

—— The medals of creation; or, first lessons in geology and the study of organic remains. 2 vols. London, 1844. 4°. 1844.1

Chimæra, vol. i, p. 64. Fossil ichthyology, vol. ii, p. 587–681. Popular description of elasmobranchs, ganoids and teleosts.

The same. 2. ed. edited by T. R. Jones. London, 1854.

—— A pictorial atlas of fossil remains. London, 1850. 207 p. 76 pls. 4°. 1850.1

Plates of Galeus, Hybodus, Lamna, Notidanus, Otodus, Ptychodus, Lepidotus, Beryx and Sphærodus.

Manz, *Wilhelm.* Anatomisch-physiologische Untersuchungen über die Accommodation des Fischauges. Inaug. Dissert. Freiburg-i-Br., 1858. 20 p. pl. 8°. 1858.1

Marage, —— Contribution à l'étude de l'audition des poissons. C. R. Acad. Sci. Paris, 1906, **143**, 852–853. 1906.1

Marangoni, *Carlo.* Sulla vesica natatoria dei pesci. Rivist. Scient., Pavia, 1879, no. 20. Also separate; Firenze, 1880. 16 p. 8°. 1879.1

—— Fonctions de la vessie natatoire des poissons. C. R. Acad. Sci. Paris, 1880, **90**, 1293–1294. Extract in Bull. Soc. Acclim. Paris, 1880, 3. sér. **7**, 329–330. — Rev. Intern. Sci., 1880, **6**, 76–77. 1880.1

Marano, *Antonino.* Contributo alla migliore conoscenza delle fibre del Mauthner, nel midollo spinale dei pesci ossei. Atti Soc. Ital. Progr. Sci. Riun., 1911, **4**, 841–843. 1911.1

Tessuto interstiziale nevroglico non si limita a lasciare canali isolati per le fibre nervose, ma penetrando nella guaina midollare forma scheletro mielinico nella fibra di Mauthner.

Marcacci, *A.* Les rapports des organes de la respiration et de la natation chez les pulmonés aquatiques. Arch. Ital. Biol., 1894, **22**, 196–203. 1894.1

Marcailhou-d'Ayméric, *H.* Coexistence des isoètes et des truites dans la plupart des lacs de l'Ariège, des Pyrénées-orientales et de l'Andorre. Bull. Soc. Centr. Aquicult. Pêche, 1899, **11**, 184–191. 1899.1

—— Note sur la coexistence des truites et des isoètes dans les lacs des montagnes. Bull. Soc. Hist. Nat. Autun, 1899, no. 12, pt. 2, 167–169. 1899.2

Marcard, *E.* Darstellung der preussischen Seefischerei und ihre jetzige Lage. Berlin, 1870. 68 p. 8°. 1870.1

Marceau, *E.* Note sur la structure du cœur chez les vertébrés inférieurs. C. R. Soc. Biol. Paris, 1902, **54**, 981–984. 1902.1

Marchand, *Ernest.* Note sur la gremille, *Acerina cernua* (L.) à propos de l'ancienneté de sa présence dans la Loire-Inférieure. Bull. Soc. Sci. Nat. Ouest France 1896 (1897), **7**, 151–159. pl. Abstract in Etangs & Rivières, 10. année, no. 232, 232–234. 1897.1

—— Sur la réproduction du saumon et l'intérêt qu'il y aurait à modifier la réglementation de sa pêche. C. R. Assoc. Franç. Avanc. Sci., 27. sess., 1899, pt. 1, 171–172. 1899.1

Marchand, *E.*
— Notules de tératologie ichthyologique. A propos de diverses anomalies observées, en 1900, chez quelques poissons de la Loire-Inférieure. Bull. Soc. Sci. Nat. Ouest Nantes, 1901, **10**, 235–246. 3 figs. 1901.1

Marchand, *Ernest,* & **Girardin,** *J.* *See* **Girardin** & **Marchand.**

Marchand, *Richard Felix* [1813–1850] Chemische Untersuchung der Knorpel von Haifischen und Rochen. Annal. Phys. Chem. (Poggendorff), 1836, **38.** 1836.1

Marchand, *Werner.* Einige kritische Bemerkungen zur morphologischen Auffassung des Amphioxus, zugleich ein spezieller Beitrag zu einer Neugestaltung der Entwicklungslehre. Berlin, 1909. 12 p. 1909.1

Marchant, *C.B.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 416. 1879.1

Marchant, *James.* Alfred Russel Wallace; letters and reminiscences. 2 vols. London & New York, 1916. illust. 8°. 1916.1

Contains the complete extant correspondence between Wallace and Darwin, vol. i, p. 127–320; also in vol. ii, a complete list of the scientific publications of Wallace.
Sexual differences among fishes, vol. i, p. 177.

Marchesetti, *Carlo de.* La pesca lungo le coste orientale dell' Adria. Trieste, 1882. 8°. 1882.1

— Die Oesterreichische Seefischerei. Uebersetzt von Breycha. Triest, 1883. 8°. 1883.1

Marcillac, *A. de.* Résultats de l'élevage de la truite arc-en-ciel à l'établissement de Bessemont, près Villers-Cotterets (Aisne) Paris, 1896. 1896.1

— Documents nouveaux sur l'élevage intensif de la truite arc-en-ciel et du saumon de Californie à l'établissement de Bessemont, près Villers-Cotterets (Aisne) Etangs & Rivières, 1897, 10. année, no. 232, 225–229. 1897.1

— L'établissement de pisciculture de Bessemont près Villers-Cotterets (Aisne) Elevage spécial de la truite arc-en-ciel. Bull. Soc. Acclimat. Paris, 1900, **47**, 243–255. 1900.1

Marcinkiewicz, *Marya.* Przyczinek do anatomii pęcherza pławnego wielopletwa (*Macropodius viridi-auratus*) [Beiträge zur Anatomie der Schwimmblase von *M. viridi-auratus*] Księga pamiątn. Józ. Nusbaum, 1911, 105–111. fig. 1911.1

Marck, *W. von der* [— 1900] Ueber *Elopopsis ziegleri,* einen neuen Fisch aus dem Pläner von Wessum. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1862, **19** (4. ser. **9**), 70. 1862.1

— Fossile Fische, Krebse und Pflanzen aus dem Plattenkalk der jüngsten Kreide in Westphalen. Palæontographica, 1863, **11**, 1–83. 14 pls. Also separate; Cassel, 1863. 4°. 1863.1

Palæoscyllium, ganoids and teleosts.

— [Ueber Krebse und Fische aus der Kreide von Sendenhorst] Correspbl. Nat. Hist. Ver. Bonn, 1864, 43–45. 1864.1

— Ueber die fischreichen Schichten der jüngsten Kreide Westphalens. Ber. Deutsch. Naturf., 1865, **40**, 150–152. 1865.1

— Fossile fische von Sumatra. Palæontographica, 1876, **22**, 405–414. 2 pls. 1876.1

Protosyngnathus, Sardinoides and Brachyspondylus from late Cretaceous strata.

— Neue Beiträge zur Kenntniss der fossilen Fische und anderer Thierreste aus der jüngsten Kreide Westfalens, sowie Aufzählung sämmtlicher seither in der westfälischen Kreide aufgefundenen fischreste. Palæontographica, 1876, **22**, 55–74. 2 pls. 1876.2

Some new teleosts are described and a complete list of fishes from the Cretaceous of Westphalia is given, p. 69–74.

— Fische der oberen Kreide Westfalens. Palæontographica, 1885, **31**, 233–267. 5 pls. Extract in Correspbl. Naturhist. Ver. Preuss. Rheinl. Westphal., **42**, 58–60. 1885.1

Squatina, ganoids and teleosts.

— Ueber die Verwandtschaft der syrischen Fischschichten mit denen der oberen Kreide Westphalens. Verh. Deutsch. Naturw. Ver., 1889, 46. Jahrg., 5. Folge, **6**, 139–164. 1889.1

— Vierter Nachtrag zu die fossilen Fische der westfälischen Kreide. Palæontographica, 1894, **41**, 41–47. pl. 1894.1

Rhinobatus tesselatus and *Spaniodon lepturus.*

Marck, *W. von der,* & **Geinitz,** *Hans Bruno.* *See* **Geinitz** & **Marck.**

Marck, *W. von der,* & **Schlüter,** *Clemens August Joseph.* Neue Fische und Krebse aus der Kreide von Westphalen. Palæontographica, 1865, **15**, 269–305. 4 pls. 1865.1

A. Fische aus der jüngsten Kreide von Sendenhorst und aus den Baumbergen, p. 272.

Palæoscyllium, Platycormus, Megapus und Physostomiden.

B. Fische aus des westphälischen Pläners, p. 289.

Archæogadus, Elopopsis.

Marcou, *Jules* [1824–1898] De la science en France. 3 fasc. Paris, 1869. 324 p. 8°. 1869.1

Fasc. 3. Le Muséum d'Histoire Naturelle, ou Jardin des Plantes.

Marcoy, *Paul.* Voyage à travers l'Amérique du Sud, de l'océan Pacifique à l'océan Atlantique. Illustré de 626 vues, types, etc., et accompagné de 20 cartes. 2 vols. Paris, 1869. 4°. 1869.1

Poissons de l'Ucayali-Amazone et des lacs qui profilent ses rives, vol. ii, p. 145.

Marcus, *Harry.* Ein Beitrag zur Kenntnis der Blutbildung bei Knochenfischen. Arch. Mikr. Anat., 1905, **66**, 333–354. pl. & fig. 1905.1

—— Ueber den Sympathikus. Sitzber. Ges. Morphol. Physiol., 1910, **25**, 119–131. 2 figs. 1910.1

Marcuse, *Wilhelm.* Beiträge zur Kenntniss des Stoffumsatzes in dem thätigen elektrischen Organ der Zitterrochen auf Grund experimentalischer Studien. Inaug. Dissert. Breslau, 1891. 1891.1

Marcusen, *Johann.* Sur quelques particularités relatives à l'organisation des mormyres. C. R. Mém. Soc. Biol. Paris, 1853, **5**, 1–3. 1853.1

—— Mittheilung über das electrische Organ des Zitterwelse. Bull. Acad. Sci. St. Pétersb., 1854, **12**, 203–208. 1854.1

—— Vorläufige Mittheilung aus einer Abhandlung über die Familie der Mormyren. Bull. Acad. Sci. St. Pétersb., 1854, **12**, 1–14. — Mélang. Biol., **2**, pt. 1, 33–51. Extract in L'Institut, **22**, no. 1085, p. 361. 1854.2

—— Note sur un organe particulier du cerveau des mormyres. C. R. Acad. Sci. Paris, 1862, **54**, 35–38. 1862.1

—— Die Familie der Mormyren. Eine anatomisch-zoologische Abhandlung. Mém. Acad. Sci. St. Pétersb., 1864, 7. sér. **7**, no. 4, 1–162. 5 pls. & 3 figs. Also separate; Leipzig, 1864. 4°. 1864.1

1. Theil. Anatomie der Mormyren. Osteologie, Rückenmark und Gehirn, Gehörorgan, Elektrische Organe.
2. Theil. Zoologie der Mormyren.
   i. Die Arten des Genus Mormyrus.
   ii. Die Arten des Genus Mormyrops.

—— On the anatomy and histology of *Branchiostoma lubricum* Costa (*Amphioxus lanceolatus* Yarrell) Ann. Mag. Nat. Hist., 1864, 3. ser. **14**, 151–154; 319–320. — C. R. Acad. Sci. Paris, 1864, **58**, 479. *Ibid.*, 1864, **59**, 89. 1864.2

—— Ueber die Geschlechtsverhältnisse der Syngnathen. Sitzber. Naturw. Ges. Isis, Dresden 1872 (1873), 12–13. 1873.1

Marder, *C. Ch.* Physikalisch-chemische Untersuchung des als Heilmittel bekannten hellen und braunen Leberthrans. Arch. Pharm., 1830, **32**, 90–109. *Ibid.*, 1838, **63**, 153–155. — Journ. Arzn. (Hufeland), **70**, 2. Heft, 85–92. 1830.1

Chemical analyses of codliver oil.

Maréchal, *J.* Ueber die morphologische Entwicklung der Chromosomen im Keimbläschen des Selachiereies. Anat. Anz., 1904, **25**, 383–398. 1904.1

—— Ueber die morphologische Entwicklung der Chromosomen im Teleostierei (mit einem Zusatz über das Ovarialei von *Amphioxus lanceolatus* und *Ciona intestinalis*) Anat. Anz., 1905, **26**, 641–652. figs. 1905.1

—— Sur l'ovogénèse des sélaciens et de quelques autres chordates. Partie 1, morphologie de l'élément chromosomique dans l'ovocyte chez les sélaciens, les téléostéens, les tuniciers et l'Amphioxus. La Cellule, Louvain, 1907, **23**. 239 p. 11 pls. 4°. 1907.1

Maréchal, *J.*, & **Saedeleer,** *A. de.* Le premier développement de l'ovocyte I chez les Rajides. La Cellule, Louvain, 1910, **26**, 1–24. pl. 1910.1

Marenghi, *Giovanni.* Alcune particolarità di struttura e di innervazione della cute dell' *Ammocœtes branchialis.* Mem. Istit. Lombardo Sci., Milano, 1903, **19**, 195–203. pl. — Zeitschr. Wiss. Zool., **75**, 421–429. pl. 1903.1

Marenzeller, *Emil von.* Die Fischzuchtanstalt des Herrn August Fruwirth in Freiland bei St. Pölten in Niederösterreich. Verh. Zool.-Bot. Ges. Wien, 1878, **27**, 523–532. — Rept. U. S. Fish Comm. 1879 (1882), **7**, 651–665. 1878.1

Marenzeller, *E.*

—— Neues über leuchtende Seetiere. Verh. Zool.-Bot. Ges. Wien, 1889, **39**. 1889.1

—— Die Nahrung der Tiefseetiere. Vortr. Ver. Verbr. Naturw. Kenntn., Wien, 1893, 33. Jahrg., 4. Heft. 1893.1

Marès, *H.* Sur l'action du froid sur les poissons. L'Institut, 1850, **18**, no. 843, 68–69. 1850.1

Marey, *Etienne Jules* [1830–1904] Détermination de la durée de la décharge électrique chez la torpille. C. R. Acad. Sci. Paris, 1871, **73**, 958–961. 1871.1

—— Du temps qui s'écoule entre l'excitation du nerf électrique de la torpille et la décharge de son appareil. C. R. Acad. Sci. Paris, 1871, **73**, 918–921. 1871.2

—— Mémoire sur la torpille. Ann. Sci. Ecole Norm. Paris, 1872, 2. sér. **1**, 85–115. — Journ. Anat. Phys. (Robin), 1872, **8**, 468–499. 6 figs. 1872.1

—— Décharge électrique de la torpille. Ecol. Prat. Haut. Etud. Phys. Expér. Trav. Labor. (Marey), 1877, **3**, 1–62. — Rev. Internat. Sci., 1878, **1**, 682–687. fig. 1877.1

—— Sur la décharge de la torpille, étudiée au moyen de l'électromètre de Lippmann. C. R. Acad. Sci. Paris, 1877, **84**, 354–356. 1877.2

—— Sur les caractères des décharges électriques de la torpille. C. R. Acad. Sci. Paris, 1877, **84**, 190–193. — Soc. Phys. Séances Paris, 1877, 17–21. 1877.3

—— Nouvelles recherches sur les poissons électriques; caractères de la décharge du gymnote; effets d'une décharge de torpille, lancée dans un téléphone. Soc. Phys. Séances Paris, 1879, 32–35. — C. R. Acad. Sci. Paris, **88**, 318–321. — Journ. Phys., **8**, 162–164. 1879.1

—— [Sur un gymnote électrique reçu du Para] C. R. Acad. Sci. Paris, 1879, **89**, 630. 1879.2

—— La locomotion aquatique étudiée par la photochronographie. C. R. Acad. Sci. Paris, 1890, **111**, 213–216. — La Nature, **42**, 360. 1890.1

—— Des mouvements de natation de la raie. C. R. Acad. Sci. Paris, 1893, **116**, 77–81. 2 figs. 1893.1

Margerie, *Emmanuel de.* Catalogue des bibliographies géologiques, redigé avec le concours des membres de la commission bibliographique du Congrès Géologique International. Paris, 1896. 733 p. 8°. 1896.1

Contains references to the literature of fossil fishes.

—— La géologie (In La science française à l'Exposition de San Francisco, vol. i, p. 201–265. Paris, 1915. 8°) 1915.1

Margó, *Theodor.* Adatok az ausztráliai Ceratodus pontosabb ismeretéhez. Math. Term. Ertes. Magyar Akad., 1894, **12**, 156–163. 1894.1

—— Studien über Ceratodus. Ein Beitrag zur Morphologie und Physiologie der Dipneusten. Math. Naturw. Ber. Ungarn, 1894, **12**, 195–207. 1894.2

Marheineke, —— Ueber künstliche Fischzucht. Hannov. Land.- & Forstw. Vereinsbl., 1867, 6. Jahrg., 2–3. 1867.1

Mariani, *E.* Si alcune ittiodoruliti della Creta lombarda. Atti Soc. Sci. Nat. Mus. Milano, 1902, **41**, 437–441. 3 figs. 1902.1

Remains of Ptychodus, Pelecopterus, Protosphyræna, Portheus and Erisichte are considered.

Mariani, *Mario.* Osservazioni geologiche sui dintorni di Camerino. Boll. Soc. Geol. Ital., 1902, **21**, 305–328. pl. 1902.1

Marine, *David.* The metamorphosis of the endostyle (thyroid gland) of *Ammocœtes branchialis,* larval land-locked *Petromyzon marinus* (Jordan) or *Petromyzon dorsatus* (Wilder) Journ. Exper. Med., 1913, **17**, 379–395. 5 pls. 1913.1

Marine, *David,* & **Lenhart,** *C. H.* Observations and experiments on the so-called thyroid carcinoma of brook trout (*Salvelinus fontinalis*) and its relation to ordinary goitre. Bull. Dept. Fisheries Pennsylvania, 1910, no. 7. 32 p. 11 figs. 1910.1

Marion, *Antoine Fortuné* [1846–1900] Esquisse d'une topographie zoologique du golfe de Marseille. Ann. Mus. Hist. Nat. Marseille, 1883, **1**, 99–102. 1883.1

—— Sur les faunes profondes de la Méditerranée. Marseille, 1883. 4°. 1883.2

—— Etude des étangs saumtres de Berre (Bouches-du-Rhône) Faune ich-

thyologique. C. R. Acad. Sci. Paris, 1887, **104**, 1306–1308. 1887.1

Lophobranchs, gobies, mullets, eels and ten rare species of teleosts are enumerated.

—— Observations sur la sardine de la Méditerranée. C. R. Acad. Sci. Paris, 1889, **109**, 290–292. 1889.1

—— Nouvelles observations sur la sardine de Marseille. C. R. Acad. Sci. Paris, 1891, **112**, 641–643. 1891.1

—— Reproduction et croissance de la sardine dans le golfe de Marseille durant la campagne 1891. C. R. Assoc. Franç. Avanc. Sci., 20. sess., 1891, pt. 1, 238–239. 1891.2

—— [De la forme *Gadus minutus* O. F. Müller, qui se trouve dans la Méditerranée] Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, fasc. 1, 118. pls. 1894.1

—— Effets du froid observés en Provence sur diverses espèces d'animaux marins. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 133–137. — C. R. Acad. Sci. Paris, **112**, 565–569. 1894.2

Observations made upon numerous species of teleosts, including Hippocampus, Blennius, Gobius, Sargus, Box, Pagellus, Atherina, etc.

—— Essai d'élevage de quelques alevins. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 121–124. 1894.3

—— Exploitation méthodique des fonds maritimes littoraux. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 1–5. 1894.4

Gadus, Pleuronectes, Lophius, Trigla, Pagellus, Sardinia, etc., are mentioned.

—— Notes sur la pêche du jaret et de la bogue dans le golfe de Marseille. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 130–132. 1894.5

—— Notes sur le régime du maquereau et de l'anchois, sur les côtes de Marseille, durant la campagne 1890. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 108–112. 1894.6

—— Observations climatériques faites à la station zoologique d'Endoume pour servir à l'étude du régime des pêches régionales. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 5–40; 1–20. 1894.7

—— Observations et expériences diverses effectuées à la station d'Endoume en 1891. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 110–116. 1894.8

Mackerel, anchovy and teleosts' eggs are referred to.

—— Œufs flottants et alevins observés dans le golfe de Marseille durant l'année 1890. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 112–121. 2 pls. & 14 figs. 1894.9

—— Remarques générales sur le régime de la faune pélagique du golfe de Marseille, particulièrement durant l'année 1890. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 124–130. 1894.10

Scombresox, sardines and mackerels.

—— La sardine sur les côtes de Marseille durant la campagne 1889–1891. Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 67–72; 99–108. 1894.11

—— Sur la pêche et la reproduction du "Siouclet" (*Atherina hepsetus* L.) Ann. Mus. Hist. Nat. Marseille (*Zool.*), 1894, **4**, 93–99. pl. & 3 figs. 1894.12

Marion, *Antoine Fortuné,* & **Guitel,** *F.* Dispersion du *Salmo quinnat* sur les côtes méditerranéennes du sud-ouest de la France. C. R. Acad. Sci. Paris, 1890, **110**, 1311–1314. — C. R. Assoc. Franç. Avanc. Sci., 19. sess., 1890, p. 487. — Bull. Soc. Centr. Aquicult. Pêche, **2**, 84–86. 1890.1

Marion, *Guy Ellwood.* Mandibular and pharyngeal muscles of Acanthias and Raia. Amer. Naturalist, 1905, **39**, 891–924. 15 figs. — Tufts Coll. Studies, **2**, no. 2. 34 p. 1905.1

Marion de Procé, —— Note sur plusieurs espèces nouvelles de poissons et de crustacés observés dans un voyage de France à Manilla [*Squalus indicus, Tetrodon manilensis, T. nigroviridis,* etc.] Bull. Soc. Philom. Paris, 1822, 129–134. — Journ. Phys. Paris, 1822, **95**, 235–240. 1822.1

Mark, *Edward Laurens* [1847 —] Studies on Lepidosteus. Part I. Bull. Mus. Comp. Zool. Harv. Coll., 1890, **19**, 1–127. 9 pls. 1890.1

—— Mark anniversary volume [edited by G. H. Parker] New York, 1903. xiii, 513 p. illust. 4°. 1903.1

iii. A new cranial nerve in selachians. By W. A. Locy. 2 pls.
iv. The natural history of *Amia calva* Linnæus. By J. Reighard. pl.
ix. The eyes of the blind vertebrates of North America. — The history of the eye of the blind fish Amblyopsis from its appearance to its disintegration in old age. By Carl H. Eigenmann. 4 pls.
xiv. On the nature of Edestus and related forms. By Charles R. Eastman. pl.
xv. The development of the ventral nerves

Mark, *E. L.*
in Selachii. Spinal ventral nerves. By H. V. Neal. 3 pls.
xx. The torus longitudinalis of the teleost brain; its ontogeny, morphology, phylogeny and function. By Porter Edward Sargent. pl.

—— *Asymmetrom lucayanum* in Bermuda. Science, 1904, n. s. **20**, 179. 1904.1

Markert, *F.* Die Flossenstacheln von Acanthias; ein Beitrag zur Kenntniss der Hartsubstanzgebilde der Elasmobranchier. Zool. Jahrb. (*Abth. Anat.*), 1896, **9**, 665–722. 4 pls. & 10 figs. 1896.1

Markham, (*Sir*) *Albert Hastings* [1841 —] A polar reconnaissance, being the voyage of the "Isbjörn" to Novaya Zemlya in 1879. London, 1881. 361 p. illust. 8°. 1881.1

Appendix I. Note on fishes, by A. Günther.

Marno, *Ernst* [— 1883] Der äthiopische Schuppenmolch, *Protopterus æthiopicus.* Zool. Garten, 1873, 14. Jahrg., 441–444. 1873.1

—— Ueber *Balæniceps rex* und *Protopterus annectens* und andere. Lotos, 1873, 23. Jahrg., 119–125. 1873.2

Marqua, *Ferdinand.* Die Entwicklung des Panther- oder Katzenhaies [*Scyllium catulus*] in Ei. Oesterr.-ungar. Fischerei Zeitg., 1880, 248. 1880.1

Marr, *John Edward,* & **Shipley,** *A. E.* (*editors*) Handbook to the natural history of Cambridgeshire. Cambridge, 1904. vi, 260 p. 8°. 1904.1

Fishes, by Vallé-Pope, p. 108–143.

Marré, *Ernst. Geophagus tæniatus* vulgo *Heterogramma corumbæ?* Auszug aus einem Vortrag "Ueber Geophagus-Arten." Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 765–766. fig. 1909.1

—— Die neuen Haplochilus-Arten. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 788–789; 799–801. 1909.2

—— Das Bestimmen der Fische. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 381–382; 396–398. 1910.1

—— *Capoëta damascina,* die syrische Capoëta. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 325–326. fig. 1910.2

—— Die flachköpfige Meeräsche (*Mugil planiceps*) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 424–425. fig. 1910.3

—— *Gasteropelecus stellatus.* Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 521–522. 2 figs. 1910.4

—— Die Inkubationsdauer des Fischeies. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 120–122. 1910.5

—— *Osphromenus trichopterus,* der Zweifleckfadenfisch. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 405–407. fig. 1910.6

—— *Pantodon buchholzi* Pet. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 277–278. fig. 1910.7

—— *Pyrrhulina brevis* Steind. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 312–313. 1910.8

—— *Rasbora leptosoma,* eine asiatische Neuheit. Prakt. Zierfischzüchter, 1910, 51–53. 1910.9

—— Die Tetragonopterus-Arten. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 331–333. 1910.10

—— Ueber *Pœcilia heteristia* Regan. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 441–542. 1910.11

—— Unbefruchtete Fischeier. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 346–347. 1910.12

—— Wie der *Xiphophorus helleri* aussieht. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 147–148. fig. 1910.13

—— Zuchtwahl und Fischzucht. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 199–200; 217–218. 1910.14

—— *Crenicichla lepidota,* ein bunter südamerikanischer Cichlide. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 121–122; 136–137. fig. 1911.1

—— *Pyrrhulina filamentosa,* der Spritzsalmler. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 237–238. 1911.2

—— Technische Hilfen bei der Zahnkarpfenzucht. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 53–55. 1912.1

—— Zuchterfolge mit der neuen Haiti-Mollienisia. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 719–720. 1913.1

Marre, *Francis.* Les pêcheries de morue du Labrador. Cosmos, Paris, 1910, n. s. **62**, 301–302. 1910.1

Marre, *L. H. de la,* & **Duhamel du Monceau,** *H. L. See* foot-note under **Duhamel du Monceau,** 1769.1

Marschall, *(Comte) August Friedrich von* [1804–1887] Nomenclator zoologicus, continens nomina systematica generum animalium tam viventium tam fossilium, etc. Vindobonæ, 1873. iv, 482 p. 8°. 1873.1

This work includes 19,996 entries. Scudder's Nomenclator contains about 80,000 entries. *See also* the nomenclatural indices cited under the names of Franz Poche and C. O. Waterhouse, *infra.*

—— Poissons de la rivière Sainte-Madeleine [Amerique du Sud] Bull. Soc. Philom. Paris, 1879, 7. sér. **3**, 12–14. 1879.1

—— Poissons nouveaux décrits par M. le Dr. Steindachner. Bull. Soc. Philom. Paris, 1881, 7. sér. **5**, 164–170. *Ibid.*, **6**, 208–210. 1881.1

Marsden, *William* [1754–1836] History of Sumatra, containing an account of the government, laws, customs and manners of the native inhabitants. 3. ed. London, 1811. pls. & maps. 4°. 1811.1

Fishes, p. 122–123. Fishing, p. 186.

Marsh, *A. H.* Canadian fisheries question. Amer. Law Rev., 1887, **21**, 298–369. 1887.1

Marsh, *C. Dwight.* The plankton of lake Winnebago and Green lake. 12. Bull. Wisconsin Geol. Nat. Hist. Survey, 1906, Sci. Ser., no. 3. 1906.1

Marsh, *George Perkins* [1801–1882] Report made under authority of the legislature of Vermont, on the artificial propagation of fish. Burlington, 1857. 8°. 1857.1

Marsh, *Millard Cales.* The brook trout disease. Trans. Amer. Fisheries Soc. 1901 (1902), 66–75. 1902.1

—— Eels and the eel question. Pop. Sci. Monthly, 1902, **61**, 426–433. 1902.2

—— The brook trout disease and cement ponds. Trans. Amer. Fisheries Soc. 1902 (1903), 107–110. 1903.1

—— A fatality among fishes in water containing an excess of dissolved air. Trans. Amer. Fisheries Soc. 1903 (1904), 192–199. 1904.1

—— A more complete description of *Bacterium truttæ.* Bull. U. S. Fish Comm. 1902 (1904), **22**, 411–415. 2 pls. 1904.2

—— Danger in shipping cans. Trans. Amer. Fisheries Soc. 1904 (1905), 53–54. 1905.1

—— The Cold Spring harbor epidemic among trout. 10. Ann. Rept. N. Y. Forest, Fish & Game Comm. 1906 (1907), 125–139; 149–161. pls. 1907.1

—— Notes on the dissolved content of water in its effect upon fishes. Proc. 4. Intern. Fish. Congr., Washington, 1908, pt. 2, 891–906. 1908.1

Marsh, *Millard Cales,* & **Cobb,** *J. N.* The fisheries of Alaska in 1907–1910. Rept. U. S. Comm. Fisheries 1907 (1908). 64 p. *Ibid.*, 1908 (1909). 78 p. *Ibid.*, 1909 (1910). 58 p. *Ibid.*, 1910 (1911). 72 p. 1908.1

Marsh, *Millard Cales,* & **Evermann,** *Barton Warren. See* **Evermann & Marsh.**

Marsh, *Millard Cales,* & **Gorham,** *F. P.* The gas disease in fishes. Rept. U. S. Bur. Fisheries 1904 (1905), 515–522. 1905.1

—— Hemoglobin and blood counts in fishes in health and disease. A review. Science, 1906, n. s. **23**, no. 591, 666. 1906.1

Marsh, *Millard Cales,* & **Robinson,** *R. K. See* **Robinson & Marsh.**

Marsh, *Othniel Charles* [1831–1899] For memorial notice and list of writings, *see* Beecher, Charles E. Othniel Charles Marsh. Amer. Journ. Sci., 1899, 4. ser. **7**, 403–428.

—— Notice of some new Tertiary and Cretaceous fishes. Abstract in Proc. Amer. Assoc. Adv. Sci., 18. meet., 1869 (1870), 227–230. 1870.1

Remains of Histiophorus, Cœlorhynchus, Embalorhynchus, Phyllodus, Myliobatis, Dipristis and Enchodus are indicated.

—— On some new reptiles and fishes from the Cretaceous and Tertiary formations. Proc. Acad. Nat. Sci. Philad., 1871, 103–105. 1871.1

Amia and Lepidosteus.

—— Introduction and succession of vertebrate life in America. Amer. Journ. Sci., 1877, 3. ser. **14**, 337–378. — Proc. Amer. Assoc. Adv. Sci., 26. meet. 1877 (1878), 211–258. 1877.1

—— An American fossil Ceratodus [*C. güntheri*] Sci. Gossip, 1878, **14**, 117. 1878.1

Marsh, *O. C.*

—— An American Jurassic Ceratodus [*C. güntheri*] Pop. Sci. Rev., 1878, n. s. **2**, 210. 1878.2

—— New species of Ceratodus [*C. güntheri*] from the Jurassic. Amer. Journ. Sci., 1878, 3. ser. **15**, 76. — Ann. Mag. Nat. Hist., 1878, 5. ser. **1**, 184. fig. 1878.3

—— Fossil vertebrates (In Johnson, Universal Cyclopædia, vol. viii, p. 491–498. London, 1895. 2 pls. & 48 figs.) 1895.1

Marshall, *Arthur Milnes* [1852–1893] On the mode of oviposition of Amphioxus. Journ. Anat. Physiol., London, 1876, **10**, 502–505. 1876.1

—— The morphology of the vertebrate head. Proc. Birmingham Phil. Soc., 1879, **1**, pt. 2, 73–93. pl. 1879.1

Elasmobranchii, p. 87–88.

—— The morphology of the vertebrate olfactory organ. Quart. Journ. Micr. Sci., 1879, **19**, 300–340. 2 pls. — Proc. Roy. Soc. London, **28**, 324–329. 1879.2

—— On the head cavities and associated nerves of elasmobranchs. Quart. Journ. Micr. Sci., 1881, n. s. **21**, 72–97. 2 pls. Also separate; London, 1883. 8°. 1881.1

—— Vertebrate embryology. A textbook for students and practitioners. London, 1893. xxiii, 640 p. figs. 8°. 1893.1

Includes reference to fish.

Marshall, *Arthur Milnes*, & **Hurst,** *Charles Herbert*. A junior course of practical zoology. London, 1887. 440 p. illust. 8°. 1887.1

A seventh edition of this work was published in 1912.

Marshall, *Arthur Milnes*, & **Spencer,** *W. Baldwin*. Observations on the cranial nerves of Scyllium. Quart. Journ. Micr. Sci., 1881, **21**, 469–499. pl. 1881.1

Marshall, (*Rev.*) *Charles*. A plain and easy introduction to the knowledge and practice of gardening, with hints on fish-ponds. 3. ed. London, 1800. 16°. 1800.1

—— The same. 4. ed. London, 1805. 12°. 1805.1

"Hints on the method of managing pond-fish," p. 413–417.

Marshall, *Thomas Ansell* [1827–1903] The natural history of the salmon. Proc. Perthshire Soc. Nat. Sci., 1869–70, 48–54. 1869.1

Marshall, *William Adolf Ludwig* [1845–1907] Asymmetrie im Körperbau der Tiere, besonders der Schollen und ihren Verwandten [Leipzig] 1885. 15 figs. 1885.1

—— Atlas der Tierverbreitung. Gotha, 1887. 9 maps. fol. 1887.1

—— Die Tiefsee und ihr Leben. Leipzig, 1888. pl. & fig. 1888.1

—— Die deutschen Meere und ihre Bewohner. 24 Lief. Leipzig, 1898. 839 p. 4 col. pls. 8°. 1898.1

—— Bilder-Atlas zur Zoologie der Fische, Lurche und Kriechtiere. Leipzig, 1898. 208 figs. 1898.2

Marshall, *William*, & **Gilbert,** *N. C.* Notes on the food and parasites of some freshwater fishes from the lakes at Madison, Wis. Rept. U. S. Bur. Fisheries 1904 (1905), 513–522. 1905.1

—— Three new trematodes found principally in black bass. Zool. Jahrb. (*Syst. Abt.*), 1905, **22**, 475–488. pl. 1905.2

Marsillon, *Charles*. Une étrange créature, le mole ou poisson-lune. La Nature, 1897, 25. année, pt. 1, 71–72. figs. 1897.1

Marsson, *M*. Die Centrachiden oder Sonnenfische. Blätt. Aquar.-Terrar. Freunde, 1897, 8. Jahrg., no. 21, 245–247. 1897.1

—— Die Seitenlinie der Fische. Blätt. Aquar.-Terrar. Freunde, 1897, 8. Jahrg., no. 13, 155–158. 1897.2

Marsson, *M*., & **Schiemenz,** *Paul*. Die Schädigung der Fischerei in der Peene durch die Zuckerfabrik in Anklam. Zeitschr. Fischerei, Berlin, 1901, **9**, 25–80. pl. 1901.1

Marston, *Robert Bright* [1853 —] Interchange of fish spawn between America and Germany. Fish. Gazette, 1881, **5**, 21–22. 1881.1

—— Coarse fish culture. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **6**, pt. 6. 1883.1

—— The cultivation of freshwater fish other than Salmonidæ. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 6. 1883.2

—— Walton and some earlier writers on fish and fishing. London, 1894. 264 p. (The book-lovers' library) 8°. 1894.1

—— The brown trout (*Salmo fario*) 1. Ann. Rept. Comm. Fisheries, Game & Forests New York 1895 (1896), 141–144. pl. 1896.1

—— The Thames as a salmon river. Nineteenth Century, 1899, **43**, 579–589. 1899.1

—— A list of books relating to fish, fishing and fisheries, to supplement the Bibliotheca piscatoria of T. Westwood and T. Satchell, published in 1883. London, 1901. 24 p. 1901.1

Corresponds to the principal work in the same way as H. Lichtenfelt's catalogue (1906.1) does to Bosgoed's Bibliotheca Ichthyologia. *See also* Albee, L. R., 1891.1 and Manley, J. J., 1883.1 *supra.*

—— Artificial culture of sea-fish (In Aflalo, F. G. British salt-water fishes. London, 1904. 328 p. 12 pls. 8°. 1904.1

Martell, *P.* Das kgl. Institut für Binnenfischerei am Müggelsee bei Berlin. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 284–285; 295–296. 1915.1

—— Die Forelle. Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 21–23. fig. 1916.1

Martelli, *Ugolino* (*editor*) Le collezioni de G. E. Rumpf acquistate dal Granduca Cosimo III de' Medici, una volta esistenti nel Museo di Fisica e Storia Naturale di Firenze. Estratto da un catalogo manoscritto dal Prof. G. Targioni-Tozzetti per cura di U. Martelli. Firenze, 1903. 213 p. 8°. 1903.1

Refers to the collections decribed by Rumpf, or Rumphius, in the illustrated catalogue "D'Amboinsche Rariteitkamer," etc. Amsterdam, 1705 and 1741. *See* Rouffaer & Muller.

Martens, *Eduard von.* Ueber einige Fische und Crustaceen der süssen Gewässer Italiens. A. Vorkommen und Landesnamen. B. Beschreibung einzelner Arten. C. Ueber das Vorkommen mariner Formen im süssen Wasser überhaupt. Arch. Naturgesch., 1857, 23. Jahrg., 149–204. 2 pls. — Ann. Mag. Nat. Hist., 3. ser. **1**, 50–63. 1857.1

Blennius, Leuciscus, Gasterosteus, Atherina and various species of Salmones, Cyprinoidei, Clupeoidei, Muræenoidei and Cyclostomi are listed with their vernacular names.

—— Ueber einige Brackwasserbewohner aus den Umgebungen Venedigs [*Cyprinodon fasciatus, Hydrobia stagnalis,* etc.] Arch. Naturgesch., 1858, 24. Jahrg., 152–208. 1858.1

—— *Leuciscus dobula* [=*L. cephalus*] mit mangelnden Bauchflossen. Mitth. Ver. Nördlich Elbe, 1859. 3. Heft, 73–76. 1859.1

—— Ueber einen neuen Polyodon (*P. gladius*) aus dem Yantsekiang und über die sogenannten Glaspolypen. Monatsber. Akad. Wiss. Berlin 1861 (1862), 476–479. 1862.1

—— Aus dem Tagebuch meiner ostasiatischen Reise. Zool. Garten, 1864, **5**, 382–385; 418–420. — Aus der Heimath (Rossmäsler), 1865, 337–344. 1864.1

—— Ueber eine neue Art von Rochen [*Trygonoptera javanica*] aus Batavia, und über neue Heliceen aus dem indischen Archipel. Monatsber. Akad. Wiss. Berlin, 1864, 260–270. 1864.2

—— Ueber Süsswasserfische von Borneo. Sitzber. Ges. Naturf. Freunde Berlin, 1864, 9–10. 1864.3

—— Zoologischer Theil der preussischen Expedition nach Ostasien. Berlin, 1865–76. 1865.1

Vol. i, part 1, 1865, 1–192.
Vol. i, part ii, 1876, 193–412. 15 pls.

—— Ueber einige ostasiatische Süsswasserthiere. Arch. Naturgesch., 1868, 34. Jahrg., **1**, 1–64. 1868.1

—— Uebersicht der ostafrikanischen Süsswasserfische, etc. (In Baron C. C. von der Decken's Reisen in Ost Afrika in 1859–61, vol. iii, pt. 1. Leipzig & Heidelberg, 1869) Abstract in Arch. Naturgesch., 1869, 36. Jahrg. 17 p. 1869.1

—— Ueber das Vorkommen des kleinen Stichlings (*Gasterosteus pungitius*) Zool. Garten, 1871, 12. Jahrg., 28. 1871.1

—— Nestbauende Fische. Zool. Garten, 1872, 13. Jahrg., 107–116. Abstract in Lotos, 1873, 23. Jahrg., 208–209. — Sitzber. Ges. Naturf. Freunde Berlin, 18–24. 1872.1

—— Ueber Zeichnungen von Fischen und Insekten, welche G. Schweinfurth in Central-Afrika entworfen hat. Sitzber. Ges. Naturf. Freunde Berlin, 1872, 100–101. 1872.2

—— F. Schmidt's Reise an den untern Jenisei. Zool. Garten, 1873, 14. Jahrg., 181–189. 1873.1

Martens, *E.*

—— Die preussische Expedition nach Ost-Asien. Zoologische Abtheilung. 2 vols. Berlin, 1876. 15 pls. 4°. 1876.1

—— Ueber die Stimme einiger Fische. Zool. Garten, 1876, 17. Jahrg., 159–168. 1876.2

—— Die Fische der abflusslosen Centralbecken in Asien und Nord-America. Naturforscher, Berlin, 1879, 164–165. 1879.1

—— Hermaphroditische Fische. Naturforscher, Berlin, 1879, 116. 1879.2

—— Ueber die Bewegungsweise der Fische aus der Gattung Periophthalmus. Sitzber. Ges. Naturf. Freunde Berlin, 1881, 160–161. 1881.1

—— Ueber die Endungen -oidæ, -idæ, -inæ in naturgeschichtlichen Benennungen. Sitzber. Ges. Naturf. Freunde Berlin, 1896, 11–15. 1896.1

—— Ueber einen eigenthümlichen Unterschied zwischen Rechts und Links bei einigen Fischen. Sitzber. Ges. Naturf. Freunde Berlin, 1896, 8–10. 1896.2

—— Ueber Tier-Namen in den europäischen Sprachen. Zool. Annalen, 1910, **3**, 78–104. 1910.1

Martens, *G. von.* Reise nach Venedig. 2 vols. Ulm, 1824. 10 pls. map. 8°. 1824.1

Fishes from the Danube, vol. i, p. 46–68. — Another edition. Ulm, 1838.

Martens, *J. B.* Life in the sea [translated from the Dutch by Herman Jacobson] Bull. U. S. Fish Comm. 1882 (1883), **2**, 253–264. 1883.1

Martin, *Anton Rolandson.* Anmärkningar om den såkallade spetelska fisken och boskapen i Norrige. Svensk. Vet. Akad. Handl., 1760, **21**, 306–311. 1760.1

—— Gordier, knut- eller trådmaskar, fundne hos fiskar och menniskor, med försökte medel att dem fördrifva. Svensk. Vet. Akad. Handl., 1771, 261. 1771.1

Om en särdeles mask, som liknar sprutor och gör Hydatides eller vattuhölsor i norsens inälfvor. Svensk. Vet. Akad. Handl., 1780, **1**, 44–49. pl. 1780.1

Martin, *Carl.* Ein beitrag zur Kenntniss fossiler Euganoïden [Ganoidei] Inaug. Dissert. Berlin, 1873. 8°. — Zeitschr. Deutsch. Geol. Ges., 1873, **25**, 699–735. — Abstract in Neues Jahrb. Mineral., 1874, 769–770. 1873.1

—— Petrefacten aus der rhätischen Stufe bei Hildesheim. Zeitschr. Deutsch. Geol. Ges., 1874, **26**, 816–822. pl. 1874.1

Martin, *Chandler.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 390. 1879.1

Martin, *Daniel.* Le parlement nouveau [Description de la vie à Strasbourg au commencement du xvii^e^ siècle] Abrégé par C. Nerlinger, in Revue d'Alsace, 1897, n. s. **11**. 1897.1

Contains mention of fish and fishing in the 16th century. *See also* Lauterborn, R., 1903.1.

Martin, *E.* (*editor*) Code nouvelle de la pêche fluviale, annoté par E. Martin. 7. éd. Paris, 1885. 12°. 1885.1

Martin, *H. T.* Notice of a new fish from the Permian of Kansas with description [*Ctenoptychius semicircularis* Newberry & Worthen] Bull. Univ. Kansas, 1913, **15** (Science Bull. **7**), 183–186. 1913.1

Martin, *J. W.* The fishes (In his The fauna of Glencairn, pt. 3.) Trans. Journ. Proc. Dumfriessh. Galloway Nat. Hist. Antiq. Soc., 1907, **18**, 30–34. 1907.1

—— My fishing days and fishing ways. London, 1910. 206 p. illust. 8°. 1910.1

—— Pike and perch fishing. London, 1910. 168 p. 8°. 1910.2

Martin, *Montgomery.* History of the British colonies. 5 vols. London, 1834. maps. 8°. 1834.1

Vol. ii. The West Indies. Ichthyology of British Guiana, p. 113. The low-low sun-fish, Tetrodon, etc., p. 114. The peri-cartabac, pacon, etc., p. 115–117. Fish of Jamaica, p. 186. Ichthyology of Trinidad, p. 241. Varieties of fish of Antigua.

Vol. iii. North America. Fish of Canada, p. 103; 258. Fish caught and exported from Newfoundland, p. 496. Cod fisheries at Newfoundland and Labrador, p. 497–499. Process of curing and salting cod, p. 500–501. Fishery of Newfoundland and produce, p. 504. French and American trade in fish, p. 506.

Vol. iv. Africa and Australasia. Varieties and quantities of fish of South Africa, p. 78. Fishes of South Wales, p. 294. Ichthyology of van Diemen's island, p. 436. Poisonous fish, p. 437. Fish of St. Helena, p. 530. Ichthyology of western Africa, p. 589.

Vol. v. Europe. Ichthyology of Gibraltar, p. 82. Fish exported therefrom, p. 83–84. Fish of Malta, p. 258–259. Fish of Corfu, p. 349.

—— The history, antiquities, topography and statistics of eastern India; in relation to their geology, mineralogy, botany, agriculture, commerce, manufactures, fine arts, population, religion, education, statistics, etc.; collated from the original documents at the East Indian house. 3 vols. London, 1838. pls. 8°. 1838.1

Vol. i, Fishes, p. 227–229; 506. Vol. ii, p. 508–510; 766–774. Vol. iii, p. 190–193; 584–593.

Martin, *Philipp Leopold.* Die Praxis der Naturgeschichte. Ein vollständiges Lehrbuch, etc. 5 Theile. Weimar, 1876–82. 4° & 8°. 1876.1

Martin, *René,* & **Rollinat,** *R.* Catalogue des reptiles, batraciens et poissons du département de l'Indre. Mém. Soc. Zool. France, 1892, **5**, 30–45. 1892.1

—— Vertébrés sauvages du département de l'Indre. Paris, 1894. 455 p. 8°. 1894.1

Martin, *S. J.* Coal ashes as a means of raising mackerel in purse-seines. Bull. U. S. Fish Comm. 1881 (1882), **1**, 65. 1882.1

—— Cod-fishing with gill nets from Gloucester, Mass. Bull. U. S. Fish Comm. 1881 (1882), **1**, 384. 1882.2

—— First appearance of fish at Gloucester, 1881. Bull. U. S. Fish Comm. 1881 (1882), **1**, 66. 1882.3

—— Fishery news from Gloucester, Mass. Bull. U. S. Fish Comm. 1881 (1882), **1**, 265. 1882.4

—— Fishery notes from Gloucester, Mass. Bull. U. S. Fish Comm. 1881 (1882), **1**, 381. 1882.5

—— Fishery notes from Gloucester, Massachusetts, concerning cod, haddock, herring, halibut and mackerel. Bull. U. S. Fish. Comm. 1881 (1882), **1**, 394–395. 1882.6

—— Notes on New England fishes. Bull. U. S. Fish Comm. 1881 (1882), **1**, 133. 1882.7

—— Notes on New England food fishes. Bull. U. S. Fish Comm. 1881 (1882), **1**, 202. 1882.8

—— Notes on the fisheries of Gloucester, Mass. Bull. U. S. Fish Comm. 1881 (1882), **2**, 419–420; 425–427. — *Ibid.*, 1883, **3**, 162–178; 297–300. — *Ibid.*, 1884, **4**, 89–96; 249–255; 410–411; 444–448. — *Ibid.*, 1885, **5**, 57–62; 203–208. 1882.9

—— Notes on the Gloucester fisheries. Bull. U. S. Fish Comm. 1881 (1882), **1**, 268. 1882.10

—— Notes on the Gloucester fishery. Bull. U. S. Fish Comm. 1881 (1882), **1**, 263. 1882.11

—— Notes on the mackerel fishery of 1881. Bull. U. S. Fish Comm. 1881 (1882), **1**, 132. 1882.12

—— Pollack fishing in Boston bay. Bull. U. S. Fish Comm. 1881 (1882), **1**, 342. 1882.13

—— The American purse seine successful in the herring fishery of Sweden. Bull. U. S. Fish Comm. 1883, **3**, 161. 1883.1

—— Movements and catch of mackerel. Bull. U. S. Fish Comm. 1882 (1883), **2**, 89–90. 1883.2

—— Movements of mackerel. Bull. U. S. Fish Comm. 1883, **3**, 470. 1883.3

—— The movements of schools of mackerel. Bull. U. S. Fish Comm. 1883, **3**, 295–296. 1883.4

—— Notes on the cod gill-net fishing at Gloucester, Mass. 1882–1883. Bull. U. S. Fish Comm. 1883, **3**, 159–161. 1883.5

—— Notes on the fisheries of Gloucester, Massachusetts; letters to Prof. S. F. Baird. Bull. U. S. Fish Comm. 1882 (1883), **2**, 15–18; 91–93. 1883.6

—— Notes on the cod gill-net fisheries of Gloucester, Mass. Bull. U. S. Fish Comm. 1884, **4**, 129–134. 1884.1

—— Notes on the cod gill-net fisheries of Gloucester, Mass. Bull. U. S. Fish Comm. 1885, **5**, 49–51. 1885.1

Martin, *William Charles Linnæus* [1798–1864] Notes on a few river fishes. Recreative Sci., 1861, **2**, 8–11. pl. 1861.1

—— The sprat [*Clupea sprattus*] and other products of our winter fishery. Recreative Sci., 1862, **3**, 271–276. 1862.1

Martini, —— Ueber das Fischgift und die sanitätspolizeilischen Massnahmen zur Verhütung seiner Wirkung. Mitth. Deutsch. Seefischerei Ver., 1898, **14**, 289–300. 1898.1

Martini, *Friedrich Heinrich Wilhelm* [1729–1778] Allgemeine Geschichte der Natur in alphabetische Ordnung, mit vielen Kupfern nach Bomarischer Einrichting, fortgesetzt von einer Gesellschaft Gelehrten und herausgegeben von F. W. Otto. 11 vols. Berlin, 1774–93. 556 pls. 1774.1

Martino, *Ant. de* [Sul sistema venoso renale di Jacobson delle raje e delle torpedini] Atti Sci. Italiani, 1845, 726–728. 1845.1

—— Observations sur le développement des spermatozoïdes des raies et des torpilles. Ann. Sci. Nat. (*Zool.*), 1846, 3. sér. **5**, 171–174. — Bibl. Univ. Archives, **2**, 426–429. 1846.1

—— Sull' anatomia del Branchiostoma e specialmente sul moto ciliare che si verifica al contorno delle lamine branchiali simulante una vera circolazione vascolare. Giorn. Istit. Lombardo, 1846, **7**, 95–106. — Giorn. Istit. Lomb. Bibl. Ital., 1846, **13**, 95–106. 1846.2

—— Lettera sulla struttura del testicolo e sullo schiudimento degli spermatozoi nelle raie e nelle torpedini. Mem. Accad. Torino, 1848, **9**, lxviii–lxxi. 1848.1

Martin-Saint-Ange, *Gaspard Joseph.* Etude de l'appareil reproducteur dans les cinq classes d'animaux vertébrés, au point de vue anatomique, physiologique et zoologique. Mém. Savants Etrang., 1856, **14**, 1–232. 1856.1

Martius, *Carl Friedrich Philipp von* [1794–1868] (*editor*) Selecta genera et species piscium quos in itinere per Brasiliam annis 1817–20 . . . Collegit et pingendos curavit . . . J. B. de Spix, etc. *See* **Spix** & **Martius.**

—— Versuch eines Commentars über die Pflanzen in der Werken von Marcgrav und Piso über Brasilien, nebst weiteren Erörterungen über die Flora dieses Reiches. Abh. K. Bayer. Akad. Wiss., math.-phys. Cl., 1853, **7**, 179–239. 1853.1

References to Marcgrave's colored drawings of fishes, etc., made in Brazil, and now preserved in Berlin.

Martius, *Carl Friedrich Philipp von,* & **Spix,** *Johann Baptist von.* *See* **Spix** & **Martius.**

Marukawa, *H.*, & **Ehrenbaum,** *E.* *See* **Ehrenbaum** & **Marukawa.**

Marukawa, *H.*, & **Okamura,** *K.* *See* **Okamura** & **Marukawa.**

Marvin, *F. O.* The scientific papers of Dr. Francis Huntington Snow. Trans. Kansas Acad. Sci., 1909, **22**, 28–34. 1909.1

Marvin, *Winthrop L.* American merchant marine, 1620–1902. New York, 1902. 1902.1

Chap. xiii. The deep-sea fisheries, p. 285–318.

Marx, *Arno.* Das Liebesspiel der Tiere. Monist. Jahrhundert, 1914, 3. Jahrg., 37–43. 1914.1

Mascall, *Francis.* Facts and remarks on the characteristics of the species of fish called char, and a suggestion respecting the synonymy of it. Mag. Nat. Hist., 1835, **8**, 231–232. 1835.1

Mascall, *Leonard.* A booke of fishing with hooke and line. Reprinted from the edition of 1590, with preface and glossary by Thomas Satchell. London, 1884. x, 52 p. 8°. 1884.1

Masi, *L.* Aggiunte alla collezione ittiologica. — *Symbranchus marmoratus* Bl. Boll. Soc. Zool. Ital., Roma, 1910, 2. ser. **11**, 97–102. 1910.1

—— Sulla presenza del "*Dinobothrium septaria*" in una "*Selache maxima.*" Boll. Soc. Zool. Ital., Roma, 1912, 3. ser. **1**, 323–328. pl. 1912.1

Maslieurat-Lagémard, —— De la pisciculture. Guéret, 1875. 40 p. 8°. 1875.1

—— Acclimatization of *Salmo quinnat* in France. Bull. U. S. Fish Comm. 1884, **4**, 144. 1884.1

Maslowsky, *A.* Neue Beiträge zur Bestätigung der Fischart *Aspius owsianka* Czernay, und neue Beobachtungen über dieselbe. Bull. Soc. Nat. Moscou, 1854, **27**, pt. 1, 442–452. 1854.1

—— Einige Beobachtungen über das Knochengerüste der Fische *Cyprinus vimba* Pallas und *Cyprinus carinatus* Güldenstädt. Bull. Soc. Nat. Moscou, 1855, **28**, no. 3, 428–432. 2 figs. 1855.1

—— Ueber den Fischembryo [*Rhodeus amarus*] in den Kiemen von Anodonta. Bull. Soc. Nat. Moscou, 1863, **36**, pt. 1, 269–278. pl. 1863.1

Mason, *Francis* [1799–1874] Burmah, its people and natural productions; or, Notes on the nations, fauna, flora and minerals of Tenasserim, Pegu and Burmah, with systematic catalogues of the known mammals, birds, fish, reptiles, etc., with vernacular names. Rangoon, 1860. 8°. 1860.1

Mason, *Frank H.* Proposed exportation of whitefish eggs to Switzerland. Bull. U. S. Fish Comm. 1883, **3**, 272. 1883.1

—— Self-reproducing food for young fish. Trans. Amer. Fisheries Soc. 1892 (1893), 58–63. 1893.1

Mason, *H. W.* Report of operations on the Navesink river, New Jersey, in 1879, in collecting living striped bass [*Labrax lineatus*] for transportation to California. Rept. U. S. Fish Comm. 1879 (1882), **7**, 663–666. 1882.1

Massalien, *Ferdinandus Christophilus* [1789 —] Descriptio oculorum Scombri, Thynni et Sepiæ. Inaug. Dissert. Berolini, 1815. 16 p. pl. 4°. 1815.1

Massalongo, *Abramo Bartolommeo* [1824–1860] Specimen photographicum animalium quorumdam plantarumque fossilium agri Veronensis, etc. Veronæ, 1859. 101 p. 40 pls. 4°. 1859.1

Italian and Latin text in parallel columns. Some teleosts from the Eocene of monte Bolca are described and illustrated.

Massari, *G.* Sul pancreas dei pesci. Rendic. Accad. Lincei, Roma, 1898, 5. ser. **7**, 134–137. 1898.1

Massat, *E.* Poissons fossiles des environs de Paris. Le Naturaliste, 1900, **22**, 264–265. 5 figs. 1900.1

Massey-Mainwaring, *William Frederic Barton* [1845–1907] The preservation of fish life in rivers by the exclusion of town sewage. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **7**, pt. 2. 1883.1

Mast, *S. O.* Changes in shade, color and pattern in fishes and their bearing on certain problems of behavior and adaptation. Proc. Nation. Acad. Sci., 1915, **1**, 214–219. 1915.1

—— Vision in flounders. Science, 1915, n. s. **41**, 470. 1915.2

Simulation of background regulated by visual stimuli. Evidence of color vision. Motion vision as acute as in man.

Mast, *S. O.,* & **Reighard,** *Jacob.* *See* **Reighard & Mast.**

Masterman, *Arthur Thomas.* General report on the pelagic eggs, larval and young fishes procured by the "Garland" in 1892 and 1893. 11. Ann. Rept. Fishery Board Scotland, 1893, 250–264. 1893.1

—— On the skeleton of the tunny. 12. Ann. Rept. Fishery Board Scotland, 1894, 272–283. 2 pls. 1894.1

—— The life-history and growth-rate of the lesser sand-eel (*Ammodytes tobianus*) Ann. Mag. Nat. Hist., 1895, 6. ser. **16**, 282–288. 1895.1

—— On hermaphroditism in the cod. 13. Ann. Rept. Fishery Board Scotland, 1895, 299–303. 3 figs. 1895.2

—— On the rate of growth of the marine food and other fishes. 13. Ann. Rept. Fishery Board Scotland, 1895, pt. 3, 289–298. pl. 1895.3

—— The effects of pelagic spawning habit on the life histories of fishes. Abstract in Rept. Brit. Assoc. Adv. Sci., 66. meet., 1896, 837. 1896.1

—— Note on the rate of growth, larval and post-larval forms of the herring. 14. Ann. Rept. Fishery Board Scotland, 1896, 294–302. 2 pls. 1896.2

—— On the "notochord" of Cephalodiscus [reply to Harmer] Zool. Anz., 1897, **20**, 443–450; 505–506. 5 figs. Abstract in Journ. Roy. Micr. Soc. London, 1898, pt. 1, 81. 1897.1

—— A review of the work of the "Garland" in connection with the pelagic eggs of the food-fishes, 1890–1896. 15. Ann. Rept. Fishery Board Scotland, 1897, pt. 3, 219–261. 1897.2

—— Some effects of pelagic spawning-habit on the life-histories of teleostean fishes. Natural Sci., 1897, **10**, 382–392. 4 figs. 1897.3

—— On the origin of the vertebrate notochord and pharyngeal clefts. Rept. Brit. Assoc. Adv. Sci., 68 meet., 1898, 914–916. 1898.1

—— On animal symmetry. Natural Sci., 1899, 50–63. 12 pls. 1899.1

—— A contribution to the life histories of the cod and whiting. Trans. Roy. Soc. Edinburgh, 1901, **40**, 1–14. 3 pls. 1901.1

—— Memorandum on the vitality of trawl-caught fish. Conseil Perm. Intern. Explor. de la Mer, Public. de Circonstance, 1908, no. 42. 7 p. fig. 1908.1

Masterman, *A. T.*
—— On a possible case of mimicry in the common sole [Solea] Journ. Linn. Soc. London, 1908, **30**, 239–244. 1908.2

—— Report on the later stages of the Pleuronectidæ. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1910, **12** C, no. 4. 82 p. 18 figs. 1910.1

—— Third report on later stages of Pleuronectidæ. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1912, **14**, 34. 1912.1

—— Report on investigations upon the salmon with special reference to age determination by study of scales. Board of Agriculture and Fisheries, London, 1913. Fishery investigations, 1. ser. Salmon and freshwater fisheries, **1**, i–iii. 4 pls. 1913.1

—— Report on investigations upon the smelt (*Osmerus eperlanus*) with special reference to age determination by study of scales and its bearing upon sexual maturity. Board of Agriculture and Fisheries. Fishery investigations, 1. ser. Salmon and freshwater fisheries, **1**, 113–126. 1913.2

Masterman, *Arthur Thomas,* & **Fryer,** *Charles E.* *See* **Fryer** & **Masterman.**

Masterman, *Arthur Thomas,* & **McIntosh,** *William Carmichael.* *See* **McIntosh** & **Masterman.**

Mataré, *Franz.* Ueber eine neue Tetracotyle im Hirn von *Phoxinus lævis.* Zeitschr. Wiss. Zool., 1910, **94**, 488–540. pl. 1910.1

Mather, *Frederic.* Trout breeding [A series of articles on this and allied subjects, running through the years 1872–74] Live Stock Journ., 1872–74. 1872.1

This Journal was published at Buffalo, N. Y., and afterward merged into one of the same title published at Chicago.

—— Natural vs. artificial spawning as practised in the culture of brook trout. Trans. Amer. Fisheries Soc. 1873 (1874), 10–13. 1874.1

—— The freshwater fisheries of Virginia. Rod & Gun, 1875, **6**, 147. 1875.1

—— Stall-fed versus wild trout. Rod & Gun, 1875, **6**, 72. 1875.2

—— Apparatus for hatching shad ova while en route to new waters. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 372–376. fig. 1876.1

—— Despised food-fishes. Forest & Stream, 1876, **6**, 148. 1876.2

Prejudice of Americans against many of the food fish of Europe.

—— Fish-culture. Scient. Amer., 1876, **35**, 345. 1876.3

—— Fish-culture notes and answers. Forest & Stream, 1876, **6**, 51. 1876.4

—— Hatching yellow perch. Forest & Stream, 1876, **6**, 51. 1876.5

—— Hybrid Salmonidæ. Forest & Stream, 1876, **6**, 69. 1876.6

—— Poisoning and obstructing the waters. Trans. Amer. Fisheries Soc. 1875 (1876), 14–19. 1876.7

—— Voyage to Bremerhaven, Germany, with shad. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 328–330. 1876.8

—— Otsego bass and Oswego bass. Forest & Stream, 1877, **8**, 228. 1877.1

—— Those young shad. Forest & Stream, 1877, **9**, 68. 1877.2

—— Another shipment of shad to California. Chicago Field, 1878, **9**, 308. 1878.1

—— Applications for fish made to the U. S. Fish Commission. Chicago Field, 1878, **9**, 404. 1878.2

—— The first soles for American waters. Forest & Stream, 1878, **10**, 34. 1878.3

—— A fish without a name. Chicago Field, 1878, **9**, 115. 1878.4

Micropterus pallidus without a vernacular name. This is one of some three-score short articles on fish and fishing by the same author which appeared in the Chicago Field during the years 1878–79 (vols. ix–xi), titles to which are not here separately listed. Various unsigned articles by Mather were also contributed to vols. xii and xiii.

—— Salmon-canning on Columbia river. An account of the process, with statistics. Chicago Field, 1878, **10**, 101. 1878.5

—— Salmon-canning on Frazer river. Chicago Field, 1878, **9**, 196. 1878.6

—— *Salmo quinnat* in France. Chicago Field, 1878, **11**, 360. 1878.7

—— The treatment of adhesive eggs. Forest & Stream, 1878, **11**, 238. 1878.8

—— Account of a trip to Europe with eggs of the quinnat salmon. Rept. U. S. Fish Comm. 1877 (1879), **5**, 811–816. 1879.1

—— The experiment of transporting turbot and soles from England to America. Rept. U. S. Fish Comm. 1877 (1879), **5**, 867–873. fig. 1879.2

—— The feeding of fishes in confinement. Trans. Amer. Fisheries Soc. 1878 (1879), 67–72. 1879.3

—— Generation of eels. Forest & Stream, 1879, **12**, 505. 1879.4

—— Long Island fishing. Science News, 1879, **1**, no. 10, 294–297; no. 20, 312–314; no. 21, 333–335; no. 22, 341–342. 1879.5

—— The management of public aquaria with a plan for reducing their running expenses. Trans. Amer. Fisheries Soc. 1879 (1880), 46–50. 1880.1

—— The jack [Lucioperca] of Tennessee. Chicago Field, 1880, **13**, 83. 1880.2

—— Recollections of the early days of the American Fish Cultural Association with an account of the intentions of its founders. Trans. Amer. Fisheries Soc. 1879 (1880), 55–59. 1880.3

—— Shipment of salmon ova to Germany in 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 909. 1880.4

—— The growth of carp in America. Proc. 2. Ann. Meet. Central Fishculture Soc., Chicago 1880 (1881), 30–39. 1881.1

—— Fishes which can live in both salt and fresh water. Trans. Amer. Fisheries Soc. 1881 (1882), 65–75. 1882.1

—— Exchange of live marine specimens with France. Bull. U. S. Fish Comm. 1883, **3**, 472. 1883.1

—— Remarkable development of embryo salmon. Trans. Amer. Fisheries Soc. 1882 (1883), 7–11. 1883.2

—— Account of eggs repacked and shipped to foreign countries under the direction of the United States Fish Commission during the winter of 1882–83. Rept. U. S. Fish Comm. 1882 (1884), **10**, 809–812. 1884.1

—— Notes on cod, shrimp, etc., at Cold Spring harbor. Bull. U. S. Fish Comm. 1884, **4**, 123. 1884.2

—— Report upon the hatching and distribution of Penobscot and landlocked or Schoodic salmon in the spring of 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 873–877. 1884.3

—— Sunfish: their habits and extermination. Trans. Amer. Fisheries Soc. 1883 (1884), 10–13. 1884.4

—— Progress in fish-culture. Century, 1884, **5**, 900. 1884.5

—— Account of eggs repacked and shipped to foreign countries under the direction of the United States Fish Commission during the season of 1883–84. Rept. U. S. Fish Comm. 1883 (1885), **11**, 973–974. 1885.1

—— Fresh and salt water hatching at Cold Spring harbor. Trans. Amer. Fisheries Soc. 1884 (1885), 6–12. 1885.2

—— Report of hatching operations at Cold Spring harbor, New York, during the season of 1884–85, and the distribution in the spring of 1885. Bull. U. S. Fish Comm. 1885, **5**, 469–472. 1885.3

—— The shad fisheries of the Hudson. Bull. U. S. Fish Comm. 1885, **5**, 177–180. 1885.4

—— Account of eggs repacked at Cold Spring harbor, New York, and shipped to foreign countries, under the direction of the United States Fish Commission, during the winter of 1884–85. Rept. U. S. Fish Comm. 1884 (1886), **12**, 147–150. 1886.1

—— Eggs received from foreign countries at Cold Spring harbor, New York, and retained or forwarded during the seasons of 1883–84 and 1884–85. Rept. U. S. Fish Comm. 1884 (1886), **12**, 143–146. 1886.2

—— Memoranda relating to Adirondack fishes, with description of new species, from researches made in 1882. Albany, 1886. 1886.3

—— Protecting and hatching the smelt. Trans. Amer. Fisheries Soc. 1885 (1886), 17–32. 1886.4

—— Work at Cold Spring harbor. Trans. Amer. Fisheries Soc. 1885 (1886), 94–97. 1886.5

—— New York and its fisheries (In The fisheries and fishery industries of the United States, edited by George Brown Goode, p. 341–377. Washington, 1887) 1887.1

—— Report of eggs shipped to and received from foreign countries at the

Mather, *F.*
Cold Spring harbor (New York) station during the season of 1885–86, and the distribution in the spring of 1886. Rept. U. S. Fish Comm. 1885 (1887), **14**, 117–120. 1887.2

—— Report of operations at Cold Spring harbor, New York, during the season of 1885. Rept. U. S. Fish Comm. 1885 (1887), **14**, 109–115. 1887.3

—— Smelt hatching. Trans. Amer. Fisheries Soc. 1886 (1887), 10–13. 1887.4

—— Work at Cold Spring harbor. Trans. Amer. Fisheries Soc. 1886 (1887), 84–87. *Ibid.*, 1887 (1888), 8–12. 1888.1

—— Brown trout in America. Bull. U. S. Fish Comm. 1887 (1889), **7**, 21–22. 1889.1

—— Report of eggs shipped to and received from foreign countries at the Cold Spring harbor (New York) station during the season of 1886–87. Rept. U. S. Fish Comm. 1886 (1889), **15**, 829–831. 1889.2

—— Report of operations at the Cold Spring harbor (New York) station during the season of 1886. Rept. U. S. Fish Comm. 1886 (1889), **15**, 721–729. 1889.3

—— Report upon the results of salmon planting in the Hudson river. Bull. U. S. Fish Comm. 1887 (1889), **7**, 409–424. 1889.4

—— Salmon in the Hudson river. Trans. Amer. Fisheries Soc. 1889 (1890), 39–65. 1890.1

—— The American Fisheries Society and its proceedings. Trans. Amer. Fisheries Soc. 1890 (1891), 87–115. 1891.1

—— Danger to fish eggs in transit. Trans. Amer. Fisheries Soc. 1890 (1891), 43–45. 1891.2

—— Eggs of pike perch. Trans. Amer. Fisheries Soc. 1890 (1891), 15–16. 1891.3

—— Breeding habits of the perch. Trans. Amer. Fisheries Soc. 1891 (1892), 51–55. 1892.1

—— Planting trout as fry or yearlings. Trans. Amer. Fisheries Soc. 1892 (1893), 86–93. 1893.1

—— Improved method of hatching smelts. Trans. Amer. Fisheries Soc. 1894 (1895), 77–83. 1895.1

—— The influence of railroads on fish culture. Trans. Amer. Fisheries Soc. 1895 (1896), 17–24. 1896.1

—— The Gammarus or freshwater shrimp as trout food. Trans. Amer. Fisheries Soc. 1896 (1897), 77–78. 1897.1

—— Natural food for trout fry. Trans. Amer. Fisheries Soc. 1896 (1897), 48–52. 1897.2

Mather, *Frederic*, & **Dean,** *Bashford.* Inspection of waters: lake Ronkonkoma, Long Island, fauna and flora. Rept. N. Y. State Fish Commission, 1889, **18**. 1889.1
Fishes, p. 215–217.

Mather, *William W.* Indication d'un gisement de poissons fossiles près de Durham entre Middletown et Newhaven. Bull. Soc. Géol. Paris, 1834–35, **7**, 70. 1834.1

—— [Note on sharks' teeth] Amer. Journ. Sci., 1835, **28**, 378. 2 figs. 1835.1

Mathew, *Gervase F.* *See* **Matthew,** *Gervase F.*

Mathews, *A. P.* The toxic and antitoxic action of salts. Amer. Journ. Physiol., 1905, **12**, 419–443. 17 tables. 1905.1

Matschie, *Paul*, **Reichenow,** *A.*, **Tornier,** *G.*, & **Pappenheim,** *P.* Die Süsswasserfauna Deutschlands. Heft I. Mammalia, Aves, Reptilia, Amphibia, Pisces. Jena, 1909. 206 p. 173 figs. 8°. 1909.1

Matsubara, *A.*, & **Lebedincev,** *A.* Einige Angaben über die moderne Wasserwirthschaft in Japan [Text in Russian] Věst. Rybopromyšl., St. Petersburg, 1902, **17**, 705–728. 3 figs. 1902.1

Matsubara, *Shinnosuke.* Catalog der japanischen Abteilung der internationalen Fischerei-Ausstellung zu Berlin in 1880. Berlin, 1880. 71 p. 8°. 1880.1

—— Die Fischerei der Gegenwart in Japan. Ost-Asien, Berlin, 1902, **5**, 213–214. 1902.1

—— Die Fischerei in Japan in der Gegenwart. Congr. Intern. Pêche Piscicult. St. Pétersb., 1903, pt. 1, 140–143. 1903.1

—— Fischzucht in Japan und Kultur anderer Wasserprodukte Stenogr. Protok. Verh. Intern. Fisch.-Kongr. Wien 1905 (1906), 307–327. pl. 1906.1

—— Goldfish and their culture in Japan. Proc. 4. Intern. Fish. Congr., Washington, 1908, 381–397. 5 pls. 1908.1

Matsuura, *K.*, & **Ishikawa,** *Chiyomatsu*. *See* **Ishikawa** & **Matsuura.**

Matte, *H.* Documents pour servir à la description géologique des Alpes Delphino-Savoisiennes. Ann. Univ. Grenoble, 1902, **14**, 187–226; 261–346. 3 pls. & 30 figs. 1902.1

Matte, *Paul.* Ueber *Girardinus decemmaculatus*, einen lebendig gebärenden Fisch. Blätt. Aquar.-Terrar. Freunde, 1900, 11. Jahrg., 29–30. fig. 1900.1

—— Der Perlmutterfisch (*Geophagus brasiliensis* Heckel) Natur u. Haus, 1901, **9**, 274–276. 1901.1

—— Ein Zwerg fürs Aquarium [*Haplochilus latipes* Gthr.] Natur u. Haus, 1901, **10**, 3–5. 1901.2

—— Mexikanische Kärpflinge (Pœcilia) Natur u. Haus, 1902, **10**, 162–163. 1902.1

Mattes, *M. R.* Guyana fishes, natural life-size, from M. R. Mattes, Surinam, by a new procedure, metalloplastik. Exhibited at the Colonial Exhibition. Amsterdam, 1883. 10 figs. 4°. 1883.1

Matteucci, *Carlo* [1811–1868] Extrait d'une lettre à M. Arago contenant les résultats des expériences faites avec M. Linari sur l'électricité de la torpille. C. R. Acad. Sci. Paris, 1836, **3**, 46–49. Phys. Chem. (Poggendorff), **38**, 291–294. — Amer. Journ. Sci., **32**, 198–199. 1836.1

—— Résultats des expériences faites sur des poissons électriques. C. R. Acad. Sci. Paris, 1836, **3**, 46–49. 1836.2

—— Nouvelles expériences sur la torpille. C. R. Acad. Sci. Paris, 1837, **5**, 501–504. — Bibl. Univ., **11**, 392–396. — Notizen (Froriep), **4**, 17–19. 1837.1

—— On the torpedo, and on the contractions of the frog. Phil. Mag., 1837, 3. ser. **12**, 196. 1837.2

—— Recherches physico-chimiques et physiologiques sur la torpille. C. R. Acad. Sci. Paris, 1837, **5**, 788–797. — Annal. Chimie, **66**, 396–437. — Ann. Sci. Nat. (*Zool.*), 2. sér. **8**, 193–224. — Bibl. Univ., **12**, 163–201. — Notizen (Froriep), **5**, 177–186; 193–202; 209–215. — Phil. Mag., **12**, 196–201; 256–258. — Ann. Electr. (Sturgeon), **2**, 290–302; 321–333. 1837.3

—— Sur les phénomènes électriques de la torpille. Bibl. Univ., 1838, **17**, 373–378. — Notizen (Froriep), 1839, **9**, 129–133. — Arch. de l'Electr., **1**, 571–575. 1838.1

—— Considerazioni sulla funzione dell' organo elettrico della torpedine e di alcuni altri pesci. Ann. Med. Chir. Metaxà, 1843, **9**, pt. 2, 71–75. — C. R. Acad. Sci. Paris, **16**, 197–200. 1843.1

—— Nouvelles expériences sur la torpille. C. R. Acad. Sci. Paris, 1843, **16**, 455–456. — Proc. London Electr. Soc., 1843, 557–559. 1843.2

—— [Nuovi fatti per stabilire il parallelo fra la funzione dell' organo elettrico della torpedine e la contrazione muscolare] Atti Sci. Italiani, 1843, 484–486. 1843.3

—— Sur l'électricité animale [Sur le parallélisme qui existe entre la fonction des organes électriques de la torpille et la contraction musculaire] C. R. Acad. Sci. Paris, 1843, **16**, 930–935. — Notizen (Froriep), **26**, 193–198. — Electr. Mag. (Walker), **1**, 45–50. 1843.4

—— Traité des phénomènes électro-physiologiques des animaux; suivi d'études anatomiques sur le système nerveux et sur l'organe électrique de la torpille, par P. Savy. Paris, 1844. fig. 8°. 1844.1

—— Lettre à M. Blainville sur des nouvelles expériences sur la torpille. C. R. Acad. Sci. Paris, 1845, **21**, 575–579. — Arch. de l'Electr., **5**, 491–495. — Notizen (Froriep), **36**, 241–245. — Electr. Mag. (Walker), **2**, 198–202. 1845.1

—— Considérations générales sur la fonction des poissons électriques. Annal. Chimie, 1847, **21**, 160–169. 1847.1

—— Electro-physiological researches. Sixth series. Laws of the electric discharge of the torpedo and other electric fishes. Theory of the production of electricity in these animals. Phil. Trans., 1847, 239–241. 1847.2

—— Mémoire sur le magnétisme développé par le courant électrique et sur un organe particulier de la raie. C. R. Acad. Sci. Paris, 1847, **24**, 301–303. 1847.3

—— Note sur la matière phosphorescente des poissons et sur la phospho-

Matteucci, *C.* rescence de la mer. Annal. Chimie, 1848, **24**, 358–360. — Journ. Prak. Chemie (Erdmann), **46**, 63–64. — Annali (Tortolini), **1**, 104–105. 1848.1

—— Results of researches on the electric function of the torpedo. Proc. Roy. Soc. London 1859–60 (1860), **10**, 576–579. — C. R. Acad. Sci. Paris, 1865, **61**, 627–629. 1860.1

—— Sul potere elettromotore dell' organo della torpedine. Nuovo Cimento, 1860, **12**, 5–17. 1860.2

—— Sur le pouvoir électromoteur de l'organe de la torpille. C. R. Acad. Sci. Paris, 1860, **50**, 918–920. — Annal. Chimie, 1860, **59**, 445–453. 1860.3

—— Nouvelles expériences sur le pouvoir électromoteur de l'organe de la torpille. C. R. Acad. Sci. Paris, 1861, **51**, 193–195. 1861.1

—— Sur la fonction électrique de la torpille. C. R. Acad. Sci. Paris, 1862, **54**, 1092–1096. — Arch. Sci. Phys. Nat. Genève, 1862, n. s. **15**, 41–44. 1862.1

Mattha, *Johannes.* Zur Degenerierung unserer Aquarienfische. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 67–68; 89–90. 1912.1

Matthew, *George Frederic* [1837 —] Discovery of a pteraspidian fish in the Silurian rocks of New Brunswick. Canadian Rec. Sci., 1886, **2**, 251–252; 323–326. 2 figs. 1886.1

—— Preliminary notice of a new genus of Silurian fishes [*Diplaspis acadica*] Bull. Nat. Hist. Soc. New Brunswick, 1887, **6**, 69–73. fig. 1887.1

—— On some remarkable organisms of the Silurian and Devonian rocks in southern New Brunswick. Trans. Roy. Soc. Canada, 1888, **6**, 49–62. pl. 1888.1

—— [Letter regarding the age of the Silurian fish, *Diplaspis acadica*] Amer. Geologist, 1891, **8**, 61–62. 1891.1

—— New genus and a new species of Silurian fish [*Ctenopleuron nerepisense* n. g. et n. sp.] Trans. Roy. Soc. Canada, 1907, 3. ser. **1**, sect. 4, 7–12. pl. 1907.1

Matthew, *Gervase F.* Sturgeon in the Torridge. Zoologist, 1872, 2. ser. **7**, 3114. 1872.1

—— A few notes on flying-fish. Zoologist, 1873, 2. ser. **8**, 3737–3740. 1873.1

—— Large sturgeon at Torquay. Zoologist, 1875, 2. ser. **10**, 4301. 1875.1

Matthews, *James Duncan.* Report on the sprat fishing during the winter of 1883–4. Rept. Scottish Fisheries, 1884, **2**, Append. F, no. 3, 48–60. pl. 1884.1

—— Oviduct in an adult male skate. Journ. Anat. Physiol., London, 1885, **19**, 144–149. pl. 1885.1

Matthews, *W.* Ichthyophobia [Taboo of fish] Journ. American Folk-Lore, 1898, **2**, 105–112. 1898.1

Matthey, *Albert.* Sur la pêche de la truite à Vallorbes (Suisse, canton de Vaud) (In Fish and fisheries, edited by David Herbert, p. 207–225. Edinburgh & London, 1883. 8°) 1883.1

Matthey, *Louis.* Essais de pisciculture faits à Vallorbes de 1864 à 1870. Intern. Fischerei Ausstell. Berlin, 1880 (Schweiz. Katalog), 35–50. Also separate; Leipzig, 1880. 16 p. 8°. 1880.1

—— Notice statistique sur la pêche de la truite saumonnée à Vallorbes, canton de Vaud (Suisse) Intern. Fischerei Ausstell. Berlin, 1880 (Schweiz. Katalog), 51–52. 1880.2

Matthiessen, *Heinrich Friedrich Ludwig.* Untersuchungen über den Aplanatismus und die Periscopie der Krystallinsen in den Augen der Fische. Arch. Gesam. Physiol., 1880, **21**, 287–307. 1880.1

—— Neue Untersuchungen über den Aplanatismus und die Periscopie der Krystallinsen des Fischauges. Arch. Gesam. Physiol., 1881, **25**, 193–211. 1881.1

—— Ueber den physikalisch-optischen Bau des Auges der Cetaceen und der Fische. IV. Das Auge vom Wels (*Siluris glanis*) Arch. Gesam. Physiol., 1886, **39**, 204–208. 1886.1

Mattocks, *J. E.*, & **Wilson,** *H. V.* *See* **Wilson & Mattocks.**

Mattson, *H.* The fisheries of British India in 1882. Rept. U. S. Fish. Comm. 1882 (1885), **13**, 1188. 1885.1

Matzdorff, *Carl.* Die deutsche Seefischerei auf der Berliner Gewerbeausstellung. Biol. Centralbl., 1897, **17**, 199–205. 1897.1

—— Bibliotheca marchica historica-naturalis. Verzeichniss der auf die

Mark Brandenburg bezüglichen naturkundlichen Schriften und Karten vom Jahre 1899. Zoologie. Helios, 1900, **17**, 89–95. 1900.1

Maude, *A. de.* Rapport sur un mémoire de M. Chauvin relatif à la culture de la mer. Bull. Soc. Acclim. Paris, 1858, **5**, 190–194. 1858.1

—— Notice sur les pêcheries des harengs, de la morue et du saumon en Norvège. Bull. Soc. Acclim. Paris, 1859, **6**, 23–29; 58–62. 1859.1

Mauduyt, (*Père*) *F.* Ichthyologie de la Vienne, ou tableau méthodique et descriptif des poissons qui vivent habituellement dans les eaux de ce département ou qui y remontent périodiquement et accidentellement. Bull. Soc. Acad. Agr. Sci. Arts Poitiers, 1849–51. Also separate; Poitiers, 1853. 8°. 1853.1

Maurel, ——, & **Lagriffe,** —— Action comparée de la chaleur et du froid chez certains poissons. C. R. Mém. Soc. Biol. Paris, 1899, 11. sér. **1**, 915–918. 1899.1

—— Détermination et action des plus basses températures compatibles avec la vie de certains poissons. C. R. Mém. Soc. Biol. Paris, 1899, 11. sér. **1**, 875–878. 1899.2

Maurer, —— Die Schädlichkeit der Möven, Steissfüsse etc. Schweiz. Fischerei Zeitg., 1895, **3**, 21. Also separate; Pfäffikon-Zürich, 1895. 1 p. 8°. 1895.1

Gulls and grebes as enemies of fish.

Maurer, *Friedrich.* Ein Beitrag zur Kenntnis der Pseudobranchien der Knochenfische. Morphol. Jahrb., 1884, **9**, 229–252. 2 pls. 1884.1

"Die Pseudobranchie [des Hechtes] ist nach ihrem anatomischen Bau ein den wahren Kiemen homologes Organ."—p. 250. Material untersucht: Esox, Salmo, Alausa, Tinca und Gadus.

—— Schilddrüse und Thymus der Teleostier. Morphol. Jahrb., 1886, **11**, 129–175. 2 pls. & 2 figs.—Sitzber. Med.-Naturw. Ges. Jena, 1885, pt. 1, 45–52. 1886.1

—— Die Kiemen und ihre Gefässe bei Anuren und urodelen Amphibien, und die Umbildungen der beiden ersten Arterienbogen bei Teleostiern. Morphol. Jahrb., 1888, **14**, 175–222. 2 pls. & figs. 1888.1

—— Der Aufbau und die Entwicklung der ventralen Rumpfmuskulatur bei den urodelen Amphibien und deren Beziehung zu den gleichen Muskeln der Selachier und Teleostier. Morphol. Jahrb., 1892, **18**, 76–179. 3 pls. & 6 figs. 1892.1

—— Zur Frage von den Beziehungen der Haare der Säugethiere zu den Hautsinnesorgane niederer Wirbelthiere. Morphol. Jahrb., 1893, **20**, 429–448. 1893.1

—— Die Elemente der Rumpfmuskulatur bei Cyclostomen und höheren Wirbelthieren. Morphol. Jahrb., 1894, **21**, 473–619. 4 pls. 1894.1

—— Die Epidermis und ihre Abkömmlinge. Leipzig, 1895. 352 p. 9 pls. 4°. 1895.1

—— Rumpfmuskulatur der Wirbeltiere und der Phylogenese der Muskelfaser. Leipzig, 1900. 13 figs. 8°. 1900.1

—— Die Entwickelung des Muskelsystems und der elektrischen Organe (In Hertwig, O. Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere, vol. iii, pt. 1, p. 1–80. 41 figs. Jena, 1906) 1906.1

—— Ueber das ventrale Rumpfmuskelsystem niederer Wirbeltiere. Verh. Anat. Ges., 25. Vers., 1911, 55–65. 1911.1

—— Die ventrale Rumpfmuskulatur der Fische (Selachier, Ganoiden, Teleostier, Crossopterygier, Dipnoer) Jena. Zeitschr. Naturwiss., 1912, **49**, 1–118. 8 pls. 1912.1

Maurizio, *Adam.* Les maladies causées aux poissons et aux œufs des poissons par les champignons. Rev. Mycol., 1897, 79–85. 1897.1

—— Die Pilzkrankheit der Fische und der Fischeier. Zeitschr. Fischerei 1896 (1897), 4. Jahrg., 76–80; 81–89.—Centralbl. Bakter. Parasit., Abth. 1, **22**, 408–410. 1897.2

—— Beiträge zur Biologie der Saprolegnieen. Deutsch. Fischerei Ver., 1899, 7. Jahrg., 2. Heft, 1–66. 1899.1

Mauro, *Salvatore Domen di.* Sopra una specie di Orthagoriscus, nuova per Catania, catturata presso l' isola dei Ciclopi (*Orthagoriscus truncatus* Flem.) Boll. Accad. Gioen. Sci. Nat. Catania, 1905, **85**, 16–19. fig. 1905.1

Maurolico, *Francesco* [Autografo intorno ai pesci di Sicilia] *See* **Facciolà,** *Luigi.* Di un autografo dell' abbate Francesco Maurolico intorno ai pesci di Sicilia. Nat. Sicil., 1891, **10**, 16–19. 1891.1

—— Tractatus per epistolam Francisci Maurolici ad Petrum Gillium, de piscibus siculis. Nat. Sicil., 1893, **12**, 180–183; 259–262; 276–281. 1893.1

Mauthner, *Ludwig.* Untersuchungen über den Bau des Rückenmarkes der Fische. Sitzber. Akad. Wiss. Wien, 1859, **34**, 31–36. — Untersuch. (Moleschott), **6**, 268–274. 1859.1

Mawas, *J.* Note sur la structure et la signification glandulaire probable des cellules névrogliques du système nerveux central des vertébrés. C. R. Mém. Soc. Biol. Paris, 1910, **69**, 45–46. 1910.1

—— Sur la structure des cellules nerveuses ganglionnaires de la moelle amyélinique des Cyclostomes. C. R. Acad. Sci. Paris, 1910, **150**, 126–127. 1910.2

Mawas, *J.*, & **Policard,** *A.* *See* **Policard** & **Mawas.**

Mawson, *Joseph,* & **Woodward,** *Arthur Smith.* On the Cretaceous formation of Bahia (Brazil) and on vertebrate fossils collected therein. Quart. Journ. Geol. Soc., 1907, **63**, 128–139. 3 pls. 1907.1

Chiromystus, Diplomystus, Megalurus, Lepidotus and Acrodus are enumerated, and *Mawsonia gigas* and *Belonostoma* (?) *carinatus* are described as new.

Max, *Corneille.* Die Muräne. Kosmos, Stuttgart, 1911, 8. Jahrg., 245–247. 3 figs. 1911.1

Maximilian (*Prinz zu Wied-Neuwied*) *See* **Wied-Neuwied,** (*Prinz*) *Maximilian Alexander Philipp zu.*

Maximov, *N. E.* *See* **Maksimov,** *N. E.*

Maximow, *Alexander.* Ueber embryonale Entwickelung der Blutzellen bei Selachiern und Amphibien. Anat. Anz., 1910, **37**, 64–70. 1910.1

—— Ueber die embryonale Entwicklung der Thymus bei Selachiern (In his Untersuchungen über Blut und Bindegewebe. V. Arch. Mikr. Anat., 1912, **80**, 39–88. 5 pls.) 1912.1

Maxwell, (*Sir*) *Herbert Eustace* [1845 —] Notes on the freshwater fishes of the Solway area. Ann. Scottish Nat. Hist., 1892, **1**, 103–104. 1892.1

—— Salmon and sea-trout, etc. London, 1898. 272 p. 8°. 1898.1

—— The habits of salmon. Ann. Scottish Nat. Hist., 1901, 146–154. 1901.1

—— British freshwater fishes. London, 1904. 316 p. 12 pls. figs. 8° (Woburn library of natural history) 1904.1

—— British freshwater fishes. London, 1912. 326 p. illust. 8°. 1912.1

Maxwell, (*Sir*) *Herbert Eustace,* **Aflalo,** *F. G.,* **Bickerdyke,** *J.,* & **Pycraft,** *W. D.* *See* **Aflalo, Bickerdyke, Maxwell** & **Pycraft.**

May, *Walther.* Neuere Literatur über Lamarck und Lamarckismus. Zool. Zentralbl., 1911, **18**, 1–20. 1911.1

Verzeichnis der neueren Literatur über Lamarck und Lamarckismus.

Mayer, *A.* Ein Abenteuer mit einem Schill (Zander) [*Lucioperca sandra*] Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., p. 4. — Erste Oesterr.-ungar. Fischerei Zeitg., 1880, p. 2. 1880.1

Mayer, *Albert.* Importreise nach Brasilien und Argentinien. Blätt. Aquar.-Terrar. Kunde, 1912, 22. Jahrg., 421–424; 434–437. 6 figs. 1912.1

—— *Jordanella floridæ,* ein brutpflegender Kärpfling aus Florida. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 521–523. fig. 1914.1

Mayer, *August Franz Joseph Carl* [1787–1865] Ueber die Kreuzung der Sehnerven bei *Gadus morrhua.* Notizen (Froriep), 1829, **24**, no. 516, 149–150. 1829.1

—— Ueber das Vorhandenseyn der Milz in der Thierreihe, und namentlich bei *Petromyzon marinus.* Notizen (Froriep), 1832, **34**, 165–166. 1832.1

—— Ueber die Bedeutung der fussförmigen Anhänge bei Rochen und Hayen, und ihr Wiedervorkommen bei niederen Thieren. Notizen (Froriep), 1834, **40**, no. 876, 273–276. — Arch. Naturgesch., 1835, 2. Jahrg., 268. 1834.1

—— Analecten für vergleichende Anatomie. Bonn, 1835. 1835.1

—— Ueber das Schwanzorgan der Rochen. Neue Notizen (Froriep), 1842, **27**, no. 588, 121–122. 1842.1

—— Ueber *Lamna cornubica.* Neue Notizen (Froriep), 1842, **21**, no. 446, 81–83. 1842.2

—— Spicilegium observationum anatomicarum de organo electrico in raiis anelectricis et de hæmatogois. Bonnæ, 1843. 17 p. 3 pls. 4°. 1843.1

—— Ueber die Gelenkverbindungen an den Stacheln der Flossen einiger Fische. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1862, 19. Jahrg. (n. s. 9. Jahrg.), 108–118. 1862.1

—— Ueber einige merkwürdige Gelenkverbindungen an den Stacheln der Flossen einiger Fische. Sitzber. Rheinl. Westphal., 1862, **19**, 108–111. 1862.2

—— Ueber den Bau des Gehirns der Fische in Beziehung auf eine darauf gegründete Eintheilung dieser Thierklasse. Nova Acta Acad. Leop.-Carol., 1864, **30**. 40 p. 7 pls. Also separate; Dresden, 1864. 4°. 1864.1

—— Ueber die Chorda dorsalis bei den Fischen. Arch. Naturgesch., 1865, 31. Jahrg., **1**, 342–344. — Zeitschr. Gesam. Naturw. Berlin, **27**, 93–94. 1865.1

Mayer, *Friedrich.* Das Centralnervensystem von Ammocœtes. Anat. Anz., 1897, **13**, 649–657. pl. Abstract in Journ. Roy. Micr. Soc., **6**, 521. 1897.1

—— Eine neue schwarzgefleckte Kärpflingsart. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 441–442. fig. 1910.1

—— *Gasteropelecus stellatus* Kner. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 569–570. fig. 1910.2

—— *Tetragonopterus æneus* Günther. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 313–314. fig. 1911.1

—— *Acantharchus pomotis* Baird. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 205–206. fig. 1912.1

—— Schwarzscheckung bei *Mollienisia velifera* Regan nebst Bemerkungen über die bisherigen Importe. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 291–293. fig. 1914.1

Mayer, *Friedrich,* & **Rachow,** *Arthur.* Ein neu importierter Characinide. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 245–246. fig. 1910.1

—— *Fundulus dispar* Agassiz und *Fundulus notatus* Rafinesque. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 689–691. 2 figs. 1911.1

Mayer, *Johann* [1754–1807] Beschreibung einer neuen Fischart aus den böhmischen Gebirgen (*Salmo maxilla, inferiore, prominula,* etc.) Neue Abh. Böhm. Ges. Wiss., 1791, **1**, 275–280. 1791.1

Mayer, *J.* Die praktische Zucht der Forelle und ihrer Verwandten. Prag, 1876. 31 p. 1876.1

—— Ueber die Entwicklung des Pankreas bei Selachiern. Anat. Hefte, Wiesbaden, 1897. 77 p. 2 pls. 1897.1

Mayer, *Paul.* Die unpaaren Flossen der Selachier. Mitth. Zool. Stat. Neapel, 1886, **6**, 217–285. 5 pls. Abstract in Amer. Naturalist, 1886, **20**, 142–143. 1886.1

—— Ueber die Entwicklung des Herzens und der grossen Gefässstämme bei den Selachiern. Mitth. Zool. Stat. Neapel, 1887, **7**, 338–370. 2 pls. 1887.1

—— Ueber Eigenthümlichkeiten in den Kreislaufsorganen der Selachier. Mitth. Zool. Stat. Neapel, 1888, **8**, 307–373. 3 pls. 1888.1

—— Ueber die ersten Stadien der Gefässe bei den Selachiern. Anat. Anz., 1894, **9**, 185–192. 1894.1

—— Ueber die vermeintliche Schwimmblase der Selachier. Mitth. Zool. Stat. Neapel, 1894, **11**, 475–478. fig. 1894.2

—— Ueber den Spiraldarm der Selachier. Mitth. Zool. Stat. Neapel, 1897, **12**, 749–754. Abstract in Journ. Micr. Sci. London, 1898, 62. 1898.1

—— Ueber die Sphincteren an den Gefässen der Rochen. Zool. Anz., 1911, **38**, 560. 1911.1

Mayerhofer, *Franz.* Untersuchungen über die Morphologie und Entwicklungsgeschichte des Rippensystems der urodelen Amphibien. Arbeit. Zool.-Instit. Univ. Wien, 1908–09, **17**, 309–358. 2 pls. 1908.1

Comparisons with fishes.

—— Farbwechselversuche am Hechte (*Esox lucius* L.) Arch. Entw. Mech., Leipzig, 1909, **28**, 546–560. 1909.1

Mayet, *Valéry* [1839 —] Note sur le saumon de Californie, *Salmo orientalis* [*Oncorhynchus quinnat*] Bull. Soc. Etud. Sci. Nat. Béziers 1879 (1880), 4. année, 79–88. 1880.1

Mayhoff, *Hugo.* Ueber das "monomorphe" Chiasma opticum der Pleuronectiden. Zool. Anz., 1912, **39**, 78–86. 6 figs. 1912.1

—— Zur Ontogenese des Kopfes der Plattfische. Zool. Anz., 1914, **43**, 389–404. 1914.1

Augenwanderung das Resultat einer Rotation der gesamten Orbitalregion, wobei Knorpel und Knochen resorbiert werden.

Maynard, *H. J.* Rainbow trout in southwestern Missouri. Bull. U. S. Fish Comm. 1887 (1889), **7**, 55–56. 1889.1

Mayo, *Benjamin.* New complete and universal natural history of all the most remarkable quadrupeds, birds, fishes, reptiles and insects in the known world. From the last London edition of J. Macloc, Esq. 2 vols. Philadelphia, 1818. 8°. 1818.1

Scoliophis atlanticus, p. 299.

Mayor, *Joh. Dan.* Ueber die Fische der Schweiz. Aarau, 1823. 37 p. 8°. 1823.1

Mayr, *Josef.* Zur Fischzucht in Tyrol. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 58–59; 69–70; 79–80.—Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 26–27; 35–36. 1880.1

—— Ueber die Entwickelung des Pankreas bei Selachiern. Anat. Hefte, Wiesbaden, 1897, **8**, 1. Abth., 75–151. 8 pls. & figs. 1897.1

Mayre, —— La pisciculture en France. Journ. Agricult. Pratique, 1874, 38. année, **2**, 676–677; 709–710. 1874.1

—— Etude sur l'aquiculture et sur le repeuplement de nos fleuves et de nos rivières. Melun, 1875. 24 p. 8°. 1875.1

—— La pisciculture en France. Journ. Agricult. Pratique, 1875, 39. année, **2**, 672–673. 1875.2

—— La pisciculture et l'empoissonnement. Journ. Agricult. Pratique, 1876, 10. année, **2**, 312–313. 1876.1

Mayser, *P.* Vergleichend-anatomische Studien über das Gehirn der Knochenfische mit besonderer Berücksichtigung der Cyprinoiden. Zeitschr. Wiss. Zool., 1882, **36**, 259–364. 10 pls. 1882.1

Mazatis, *Fritz.* *Etroplus maculatus* (Bl.) Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 657–659. fig. 1910.1

—— Meine Fischzuchtanstalt. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 419–421. 1910.2

—— *Mollienisia* (?) *petenensis* Günther (richtig, *M. velifera* Regan) Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 161–166. 2 figs. 1914.1

Mazza, *Felice.* Sull' occhio della *Cephaloptera giorna* Cuvier; note anatomo-istologiche. Ann. Mus. Civ. Storia Nat. Genova, 1889–90, 2. ser. **9**, 455–475. 2 pls. 1889.1

—— Annotazioni di teratologia comparata. Caso di ectromelia pelvica sinistra congenita in un *Pagellus erythrinus* C. V. Atti Soc. Ligust. Sci. Nat. Genova, 1890, **1**, no. 1. 1890.1

—— Sulla rigenerazione della pinna caudale in alcuni pesci. Atti Soc. Ligust. Sci. Nat. Genova, 1890, **1**, 318–321. 1890.2

—— Sul tubo gastro-enterico della *Cephaloptera giornæ.* Ann. Mus. Civ. Storia Nat. Genova, 1891, 2. ser. **10**, 519–536. 2 pls. 1891.1

—— Eteromorfie di alcuni pesci marini. Atti Soc. Ligust. Sci. Nat. Genova, 1893, **4**, 427–435. 1893.1

—— Note anatomo-istologiche sulla *Chimæra monstrosa.* Atti Soc. Ligust. Sci. Nat. Genova, 1895, **6**, 301–315. pl. 1895.1

—— Ricerche morfologiche e biologiche sulla *Lebias calaritana* Bonelli. Atti Soc. Ligust. Sci. Nat. Genova, 1897, **8**, 330–339. 4 figs. 1897.1

—— Laboratorio zoologico della R. Università di Cagliari. Ricerche sulla bursa Fabrici (auct.) e sulla bursa cloacæ (Retzius) Nota riassuntiva. Atti Soc. Ligust. Sci. Nat. Genova, 1898. 1898.1

—— Sull' apparato digerente del *Regalecus glesne* Asc. Monit. Zool. Ital., 1900, **11**, Suppl. 34–36. 1900.1

—— Note sull' apparato digerente del *Regalecus glesne* Asc. Intern. Monatsschr. Anat. Physiol., 1901, **18**, 129–141. pl. 1901.1

—— Rendiconto della seconda assemblea ordinaria del convegno dell' Unione Zoologica Italiana in Napoli, 1901, 10–13 Aprile. 1901.2

—— Sulla prima differenziazione delle gonadi e sulla maturazione delle uova nella *Lebias calaritana.* Monit. Zool. Ital., 1901, **12**, 235–237. 1901.3

—— La *Lebias calaritana* Bon. Segmentazione dell' uovo e stadi successivi di sviluppo. Atti Soc. Ligust. Sci. Nat. Genova, 1902, **13**, 181–223. 2 pls. 1902.1

—— Sul grado di sviluppo delle cellule germinali in quelle anguille distinte a Cagliari col nome di filatrotas. Atti Congr. Nat. Ital., Milano 1906 (1907), 622–631. 3 pls. 1907.1

—— Sulle branchie supplementari di alcuni Ciprinodontini. Atti Congr. Nat. Ital., Milano 1906 (1907), 615–621. 3 pls. 1907.2

—— Risultato di esperimenti fatti sopra alcune anguille argentine (filatrotas), vissute forzatamente in acqua dolce. Rendic. Accad. Lincei, Roma, 1912, 5. ser. **21**, 730–735. 4 figs. 1912.1

—— Risultati di ricerche anatomoistologiche sugli organi genitali delle anguille di acqua dolce e di acqua salmastra. Boll. Soc. Zool. Ital., Roma, 1913, **2**, 27–61. 2 pls. 1913.1

Mazza, *Felice,* & **Perugia,** *Alberto.* Sulla glandola digitiforme (Leydig) nella *Chimæra monstrosa* Linn. Atti Soc. Ligust. Sci. Nat. Genova, 1894, **5**, pt. 2, 203–292. 2 pls. 1894.1

Mazzarelli, *Giuseppe F.* Per gli studi di acquicoltura in Italia. Acquicolt. Lombard., Milano, 1903, **5**, 81–85. 1903.1

—— Intorno alle diverse dimensione che assumono i pesci negli allevamenti. Acquicolt. Lombard., Milano, 1904, **6**, 313–316. 1904.1

—— La mortalità degli agoni (*Alosa finta* Cuv.) nel lago di Lugano. Relazione. Acquicolt. Lombard., Milano, 1904, **6**, 157–167. 1904.2

—— L' azione del ministero in favore della pesca. Acquicolt. Lombard., Milano, 1905, **7**. 1905.1

—— L' origine di un paio di pinne pettorali sopranumerarie asimmetriche in un avannotto di *Salmo irideus* Gibb. Acquicolt. Lombard., Milano, 1905, **7**, nos. 1–3, 13–15. fig. 1905.2

—— Ricerche sulla epizoozia degli agoni (*Alosa finta*) manifestatasi nel lago di Lugano negli anni 1904 e 1905. Acquicolt. Lombard., Milano, 1905, **7**, 143–189. 2 pls. 1905.3

—— L' attuale infezione da *Tetracotyle Percæ fluviatilis* Moul. dei pescipersici del lago di Pusiano, e la moria dei pesci-persici nei laghi di Varese e di Varano nell' anno 1898. Rivist. Mens. Pesca, Milano, 1906, **8**, 142–144. 1906.1

—— Le condizioni della pesca nella provincia di Milano. Rivist. Mens. Pesca, Milano, 1906, **8**, 301–325. 1906.2

—— La pesca degli agoni [*Alosa finta*] con la canna durante il periodo di frega oovero su l' eterna quistione del lago di Como. Considerazioni. Rivist. Mens. Pesca, Milano, 1907, **9**, 271–278. *Ibid.*, 1908, **10**, 106–110; 181–183. 1907.1

—— La stazione zoologica di Napoli e gli studi sul pesce novello. Rivist. Mens. Pesca, Milano, 1908, **10**, 141–144. 1908.1

—— Una *Selache maxima* pescata a Pozzallo (Siracusa) Rivist. Mens. Pesca, Milano, 1908, **10**, 165–167. 1908.2

—— L' epizoozia degli agoni [Alosa] del lago di Lugano nella primavera del 1908. Contributo alla conoscenza della pseudodifterite ittica. Rivist. Mens. Pesca, Napoli, 1909, **11**, 79–100. 1909.1

—— Pesce-gatto (*Amiurus nebulosus*) e persicosole (*Eupomotis gibbosus*) Rivist. Mens. Pesca, Napoli, 1909, **11**, nos. 5–6, 114–115. *Ibid.*, nos. 7–8, 165–167; 257–259. 1909.2

—— Larve e forme giovanile di teleostei dello stretto di Messina. Rivist. Mens. Pesca, Pavia, 1910, **5**, nos. 10–12, 317–328. pl. 1910.1

—— Studi sui pesci batipelagici dello stretto di Messina. I. Larve stiloftalmoidi (periscopiche di Holt e Byrne) di Scopelidi e loro metamorfosi iniziale. II. Intorno allo *Eretmophorus kleinenbergi* Gigl. Rivist. Mens. Pesca, Pavia, 1912, **7**, 1–26; 129–134. 4 pls. 1912.1

Mazzarelli, *Giuseppe P.*, **Bellotti,** *C.*, & **Ronchetti-Monteviti,** *G. See* **Bellotti, Ronchetti-Monteviti** & **Mazzarelli.**

Mazzullo, *L.* Monografia della pesca del pesce spada (*Xiphias gladius*) nel canale di Messina. Messina, Alico, 1906. 26 p. 1906.1

Mead, *A. D.* The breeding of animals at Woods Hole during the month of April 1898. Science, 1898, n. s. **7**, 702–704. 1898.1

Various food-fishes.

Mead, *A. D.*
—— A new principle of aquiculture and transportation of live fishes. Proc. 4. Intern. Fish. Congr., Washington, 1908, pt. 2, 759–780. 11 pls. 1908.1

—— A method of fish culture and of transporting live fishes. 39. Ann. Rept. Comm. Inland Fish. Rhode Island, 1909, 79–106. 1909.1

Mead, *Charles S.* Comparative chart of the vertebrate skull. Ohio Naturalist, 1904, **4**, 52–55. 1904.1

Mead, *Charles Williams* [1845—] The fish in ancient Peruvian art (In Putnam anniversary volume. Anthropological essays, p. 126–136. New York, 1909. 2 pls. 4°) 1909.1

—— Conventionalized figures in ancient Peruvian art. Anthropol. papers Amer. Mus. Nat. Hist., 1916, **12**, no. 4. 1916.1

Contains descriptions and figures of fish designs in Peruvian minor arts.

Mead, (*Miss*) *Frances Hobart.* Bibliography of Frederic W. Putnam (In Putnam anniversary volume. Anthropological essays, p. 601–626. New York. 1909. 4°) 1909.1

Meade-Waldo, *E. G. B.*, & **Nicoll,** *Michael J.* Description of an unknown animal seen at sea off the coast of Brazil. Proc. Zool. Soc. London, 1906, 719–721. fig. 1906.1

Presumably fish, identity problematical.

Mearns, *E. A.* Notes on the mammals of the Catskill mountains, New York, with general remarks on the fauna and flora of the region. Proc. U. S. Nat. Mus., 1898, **21**, 341–360. figs. 1898.1

—— A study of the vertebrate fauna of the Hudson highlands. Bull. Amer. Mus. Nat. Hist., 1898, **10**, 303–352. 1898.2

Petromyzon, Carcharhinus, Acipenser, Catostomus and various teleosts.

Mease, *James* [1771–1846] Facts respecting the rock-fish, or streaked bass of the United States [*Labrax lineatus*] Trans. Lit. Phil. Soc. New York, 1815, **1**, 502–504. 1815.1

Mease, *James*, & **Smith,** *Thomas.* *See* **Smith & Mease.**

Mechnikov, *L.* La littérature russe sur le Japon. Mém. Soc. Etudes Jap., Paris, 1873–76, **1**, 25–30. 1873.1

Mechnikov, *Olga.* Ueber den Schulter und Beckengurtel bei den Knorpelfischen. Vorläufige Mittheilung. Denkschr. Neuruss. Naturf. Ges., 1879 (?), **6**, Heft 1, 41–42. 1879.1

—— Notiz über den Beckenbogen des *Scaphirhynchus hermanni.* Zool. Anzeiger, 1880, **3**, 21–23. 1880.1

—— Zur Morphologie des Becken- und Schulterbogens der Knorpelfische. Zeitschr. Wiss. Zool., 1880, **33**, 423–438. pl. *Ibid.*, 1881, **34**, 366. 1880.2

Meckel, *Johann Friedrich* [1781–1833] De duplicitate monstrosa commentarius. Halle & Berlin, 1815. 1815.1

—— System der vergleichenden Anatomie. Halle, 1821–1833. 1821.1

Anatomy of Myxine, p. 217–222.

—— Apostoli Arsakyi Epirotæ commentatio de piscium cerebro et medulla spinali . . . denuo edita fragmentis de eadem re additis ab Gustavo Guilielmo Minter. Lipsiæ, 1836. xix, 36 p. 3 pls. 1836.1

See also **Arsaky,** *Apostolus* 1813.1 and 1836.1, *ante.*

Medič, *M.* Druga kolo ihtioloških bilježaka. Rad Jugoslav. Akad., Zagreb., 1901, **147**, 138–191. 6 pls. 1901.1

Meehan, *William E.* Observations on the mortality among trout fry at the Allentown hatching station through long inbreeding. Trans. Amer. Fisheries Soc. 1899 (1900), 86–91. 1900.1

—— A year's work of fisheries' interest in Pennsylvania. Trans. Amer. Fisheries Soc. 1904 (1905), 82–91. 1905.1

—— Fish distributed by Pennsylvania from January 1, 1906, to July 1, 1906. Trans. Amer. Fisheries Soc. 1906 (1907), 97. 1907.1

—— New type of jars for hatching. Trans. Amer. Fisheries Soc. 1906 (1907), 169–170. 1907.2

—— The shad work on the Delaware river in 1907 and its lessons. Trans. Amer. Fisheries Soc. 1907 (1908), 105–113. 1908.1

—— Experiments in sturgeon culture. Trans. Amer. Fisheries Soc. 1909 (1910), 85–90. 1910.1

—— Goitre among trout, and efforts to eradicate it. Trans. Amer. Fisheries Soc. 1911 (1912), 63–74. 1912.1

—— Building an aquarium for Philadelphia. Trans. Amer. Fisheries Soc. 1913 (1914), 179–182. 1914.1

—— Fish-culture in ponds and other inland waters. New York, 1913. 287 p. 8°. 1913.1

Meek, *Alexander.* On the structure of *Trachypterus arcticus* (the northern ribbon fish) Stud. Dundee College Museum, 1890, **1**, no. 6, 1–24. 2 pls. & 8 figs. 1890.1

—— Arbuthnot's list of the fishes of Peterhead, with notes. Trans. Buchan. Field Club, 1893, **3**, pt. 2, 107–112. 1893.1

—— An account of the scientific work of the Northumberland sea fisheries committee. Journ. Mar. Biol. Assoc., 1897–99, n. s. **5**, 72–78. 1897.1

—— Report on the trawling excursions carried on during the summer of 1898 and on other scientific work done in connection with the marine laboratory at Cullercoats. Newcastle-on-Tyne, 1898. 38 p. 2 figs. 1898.1

—— A contribution to our knowledge of the growth of the plaice. Rept. Northumberland Sea Fish. Comm., 1903, 40–41. 1903.1

—— Ichthyological notes. Rept. Northumberland Sea Fish. Comm., 1903, 58–60. 1903.2

—— On the egg of a species of goby. Rept. Northumberland Sea Fish. Comm., 1903, 49. pl. 1903.3

—— Faunistic notes. Rept. Northumberland Sea Fish. Comm., 1904, 86–87. 1904.1

—— Fishes of Durham. Victoria County History of Durham, 1904, 168–173. 1904.2

—— The migrations of inshore fishes. Rept. Northumberland Sea Fish. Comm., 1904, 68–80. 2 figs. 1904.3

—— Notes on the auditory organ and the orbit of *Orthagoriscus mola.* Anat. Anz., 1904, **25**, 217–219. 4 figs. 1904.4

—— On the fishes of the north-east coast. Trans. Nat. Hist. Soc. Northumberland, 1904, n. s. **1**, 35–38. 1904.5

—— On the migrations and the growth of plaice. Trans. Nat. Hist. Soc. Northumberland, 1905, n. s. **1**, 144–154. pl. 1905.1

—— The white fisheries of Northumberland. Rept. Northumberland Sea Fish. Comm., 1905, 7–86. 6 tables. 1905.2

—— Fishes of Northumberland. Victoria County History of Northumberland, 1906. 1906.1

—— Trawling experiments. Rept. Northumberland Sea Fish. Comm., 1906, 9–27. 1906.2

—— The sea fisheries of Northumberland. Victoria County History of Northumberland, vol. viii, 378–389. 1907. 1907.1

—— The encephalomeres and cranial nerves of an embryo of *Acanthias vulgaris.* Anat. Anz., 1909, **34**, 473–475. fig. 1909.1

—— Migrations of inshore flat-fish. Rept. Northumberland Sea Fish. Comm. 1908 (1909), 30–31. 1909.2

—— Report on the scientific investigations for the year 1908, and to May 20th, 1909. Rept. Northumberland Sea Fish. Comm. 1908 (1909), 1–26. map. 1909.3

—— A three-eyed dab. Rept. Northumberland Sea Fish. Comm. 1909 (1910), 44. 1910.1

—— The spawning of the cod. Rept. Northumberland Sea Fish. Comm. 1910 (1911), 24–25. pl. 1911.1

—— The migrations of plaice and dab in the North sea, and their origin. Rept. Dove Marine Lab. Cullercoats, 1913–14, 29–53. 7 figs. 1913.1

—— The organisation of the teleostean egg. Rept. Dove Marine Lab. Cullercoats, 1913, n. s. **2**, 85–95. 5 pls. 1913.2

Fertilised ovum, segmentation, gastrulation, postgastrula. Orientation a function of nucleus.

—— Herring races. Preliminary work, A. Morphological features. Rept. Dove Marine Lab. Cullercoats, 1914, n. s. **3**, 54–58. 1914.1

—— Migrations of flat-fish. Rept. Dove Marine Lab. Cullercoats, 1914, n. s. **3**, 25–28. 1914.2

—— The migrations of plaice and dab in the North sea, and their origin. Rept. Dove Marine Lab. Cullercoats, 1914, n. s. **3**, 29–53. 7 pls. 1914.3

—— On a law of distribution of inshore fish. Intern. Rev. Ges. Hydrob. Hydrogr., 1914, **6**. 1914.4

Meek, *A.*

—— Geological changes and the distribution of fish [Abstract] Nature, 1915, **96**, 327. 1915.1

Fish of the Antarctic seas appear to be northern in origin, but the freshwater fish-fauna of the southern hemisphere is characterized by the presence of primitive types.

—— Migrations in the sea. Nature, 1915, **95**, 231. 1915.2

Presents a new conception of contra- and denatation.

—— Migrations of the dab. Rept. Dove Marine Lab. Cullercoats, 1915, n. s. **4**, 38–39. 1915.3

—— The migrations of the grey gurnard, *Trigla gurnardus.* Rept. Dove Marine Lab. Cullercoats, 1915, n. s. **4**, 9–15. 5 pls. 1915.4

—— A remarkable case of "parental" care in the genus Cottus. Rept. Dove Marine Lab. Cullercoats, 1915, n. s. **4**, 42–43. pl. 1915.5

—— The migrations of fish. London, 1916. 427 p. illust. 8°. 1916.1

Meek, *Alexander,* & **Storrow,** *B.* Trawl-caught herring landed at North Shields. Rept. Northumberland Sea Fish. Comm. 1911 (1912), 52–58. pl. 1912.1

—— Herring races. Rept. Dove Marine Lab. Cullercoats, 1913, 54–72. 2 pls. 1913.1

Meek, *Seth Eugene* [1859–1914] Publications of Seth Eugene Meek (In Meek Memorial Volume, p. 45–49. Privately published [Chicago] 1915) 49 p. 4 pls. 8°. 1915.1

—— Note on the genus Anguilla. Bull. U. S. Fish Comm. 1883, **3**, 430. 1883.1

—— Description of a new species of Hybopsis (*Hybopsis montanus*) Proc. U. S. Nat. Mus. 1884 (1885), **7**, 526–527. 1885.1

—— A review of the American species of the genus Synodus. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 130–136. 1885.2

—— A note on the lamprey of Cayuga lake. Proc. Amer. Assoc. Adv. Sci., 35. meet., 1886, 269. 1886.1

—— The fishes of the Cayuga lake basin. Ann. New York Acad. Sci., 1888, **4**, 297–316. 1888.1

—— The native fishes of Iowa. Bull. Labor. Nat. Hist. Univ. Iowa, 1889, **1**, 161–171. 1889.1

A list is given of 28 species.

—— Notes on a collection of fishes from the Maumee valley, Ohio. Proc. U. S. Nat. Mus. 1888 (1889), **11**, 435–440. 1889.2

—— The native food fishes of Iowa. Proc. Iowa Acad. Sci., 1890, 68–76. 1890.1

—— Note on *Ammocœtes branchialis.* Amer. Naturalist, 1890, **23**, 640–642. 1890.2

—— A catalogue of the fishes of Arkansas. Ann. Rept. Arkansas State Geol., 1891, 215–276. 1891.1

—— The fishes of the Cedar river basin. Proc. Iowa Acad. Sci., 1891, 1–8. 1891.2

—— Report of explorations made in Missouri and Arkansas during 1889, with an account of the fishes observed in each of the river basins examined. Bull. U. S. Fish Comm. 1889 (1891), **9**, 113–141. 1891.3

—— A report upon the fishes of Iowa, based upon observations and collections made during 1889, 1890, & 1891. Bull. U. S. Fish Comm. 1890 (1892), **10**, 217–248. 1892.1

—— A new Etheostoma from Arkansas. Amer. Naturalist, 1894, **28**, 957. 1894.1

—— Notes on the fishes of western Ohio and eastern Nebraska. Bull. U. S. Fish Comm. 1894 (1895), **14**, 133–138. 1895.1

—— Report of investigations respecting the fishes of Arkansas, conducted during 1891, 1892 and 1893, with a synopsis of previous explorations in the same state. Bull. U. S. Fish Comm. 1894 (1895), **14**, 67–94. 1895.2

—— A list of fishes and mollusks collected in Arkansas and Indian Territory in 1894. Bull. U. S. Fish Comm. 1895 (1896), **15**, 341–349. 1896.1

—— List of fishes and reptiles obtained by Field Columbian Museum East African expedition to Somaliland in 1896. Publ. Field Columbian Mus. (*Zool.*), 1897 (1899), **1**, 165–183. pl. 1899.1

—— Notes on a collection of cold-blooded vertebrates from the Olympic mountains. Publ. Field Columbian Mus. (*Zool.*), 1897 (1899), **1**, 225–236. 1899.2

—— Notes on a collection of fishes and amphibians from Muskoka and Gull lakes. Publ. Field Columbian Mus. (*Zool.*), 1897 (1899), **1**, 307–311. 1899.3

—— The geographical distribution of fishes. Birds and Nature, 1900, **8**, 161–164. 1900.1

—— The geological succession of fishes. Birds and Nature, 1900, **8**, 133–139. 1900.2

—— The growth and variation of fishes. Birds and Nature, 1900, **8**, 84–89. 1900.3

—— Review of D. S. Jordan and B. W. Evermann's part IV of the "Fishes of North and Middle America." Amer. Naturalist, 1900, **34**, 764–765. 1900.4

—— A contribution to museum technique [Exhibition of fishes] Amer. Naturalist, 1902, **36**, 53–61. 1902.1

—— A contribution to the ichthyology of Mexico. Publ. Field Columbian Mus. (*Zool.*), 1902, **3**, 63–128. 18 pls. 1902.2

—— The genus Eupomotis. Publ. Field Columbian Mus. (*Zool.*), 1902, **3**, no. 2, 11–14. 1902.3

—— Distribution of the freshwater fishes of Mexico. Amer. Naturalist, 1903, **34**, 771–784. figs. 1903.1

—— The geographic distribution of the freshwater fishes of Mexico. Abstract in Science, 1903, n. s. **17**, 231. 1903.2

—— Review of D. S. Jordan and B. W. Evermann's "American game and food fishes." Amer. Naturalist, 1903, **37**, 557–558. 1903.3

—— The freshwater fishes of Mexico north of the isthmus of Tehuantepec. Publ. Field Columbian Mus. (*Zool.*), 1904, **5**, 1–252. 17 pls. & 72 figs. 1904.1

—— A collection of fishes from the isthmus of Tehuantepec. Proc. Biol. Soc. Washington, 1905, **18**, 243–245. 1905.1

—— Two new species of fishes from Brazil. Proc. Biol. Soc. Washington, 1905, **18**, 241–242. 1905.2

—— Description of three new species of fishes from middle America. Publ. Field Columbian Mus. (*Zool.*), 1906, **7**, 91–95. 1906.1

—— Notes on freshwater fishes from Mexico and Central America. Publ. Field Columbian Mus. (*Zool.*), 1907, **7**, 133–157. 1907.1

—— Synopsis of the fishes of the great lakes of Nicaragua. Publ. Field Columbian Mus. (*Zool.*), 1907, **7**, no. 4, 95–132. 2 figs. 1907.2

—— The zoology of lakes Amatitlan and Attitlan, Guatemala, with special reference to ichthyology. Publ. Field Columbian Mus. (*Zool.*), 1908, **7**, no. 6, 159–206. pl. 1908.1

—— New species of fishes from tropical America. Publ. Field Columbian Mus. (*Zool.*), 1909, **7**, no. 7, 207–211. 1909.1

—— New species of fishes from Costa Rica. Publ. Field Columbian Mus. (*Zool.*), 1912, **10**, no. 7, 69–75. 1912.1

—— An annotated list of fishes known to occur in the fresh waters of Costa Rica. Publ. Field Columbian Mus. (*Zool.*), 1914, **10**, 101–134. 1914.1

Descriptions are given of five new species of Bryconamericus, Priapichthys, Siphostoma, Menidia and Eleotris.

Meek, *Seth Eugene,* & **Bollman,** *Charles Harvey.* Note on *Elagatis bipinnulatus.* Proc. Acad. Nat. Sci. Philad., 1889, 42–44. 1889.1

Meek, *Seth Eugene,* & **Clark,** *Howard Walton.* Notes on a collection of cold-blooded vertebrates from Ontario. Publ. Field Columbian Mus. (*Zool.*), 1902, **3**, 131–140. 1902.1

Meek, *Seth Eugene,* & **Evermann,** *Barton Warren.* *See* **Evermann & Meek.**

Meek, *Seth Eugene,* & **Gage,** *Simon H.* *See* **Gage & Meek.**

Meek, *Seth Eugene,* & **Goss,** *David Kopp.* A review of the American species of the genus Hemirhamphus. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 221–226. 1885.1

—— A review of the American species of the genus Trachynotus. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 121–129. 1885.2

Meek, *Seth Eugene,* & **Hall,** *E. A.* A review of the American genera and

Meek & **Hall.**
species of Batrachidæ. Proc. Acad. Nat. Sci. Philad. 1885 (1886), 52–62. 1886.1

Meek, *Seth Eugene,* & **Hildebrand,** *S. F.* A synoptic list of the fishes known to occur within 50 miles of Chicago. Publ. Field Columbian Mus. (*Zool.*), 1910, **7**, 223–338. 61 figs. 1910.1

—— Descriptions of new fishes from Panama. Publ. Field Columbian Mus. (*Zool.*), 1912, **10**, 67–68. 1912.1

—— New species of fishes from Panama. Publ. Field Columbian Mus. (*Zool.*), 1913, **10**, no. 8. 1913.1

—— The fishes of the fresh waters of Panama. Publ. Field Columbian Mus. (*Zool.*), 1916, **10**, 217–274. 26 pls. & 10 figs. 1916.1

A systematic catalogue of the freshwater fishes of Panama. Five new genera and thirteen new species of teleosts are described.

Meek, *Seth Eugene,* & **Hoffmann,** *M. L.* A review of the American species of the genus Teuthis. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 227–231. 1885.1

Meek, *Seth Eugene,* & **Jordan,** *David Starr. See* **Jordan** & **Meek.**

Meek, *Seth Eugene,* & **Newland,** *R. G.* A review of the American species of Scomberomorus. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 232–239. 1885.1

—— A review of the American species of the genus Sphyræna. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 67–75. 1885.2

—— A review of the American species of the genus Scorpæna. Proc. Acad. Nat. Sci. Philad. 1885 (1886), 394–403. 1886.1

—— A review of the species of the genus Esox. Proc. Acad. Nat. Sci. Philad. 1885 (1886), 367–375. 1886.2

Meek, *Seth Eugene,* & **Pierson,** *C. J.* Description of a new species of Gobiesox [*G. muscarum*] from Monterey bay, California. Proc. Calif. Acad. Sci., 1895, 2. ser. **5**, 571–572. 1895.1

Meek, *Seth Eugene,* & **Swain,** *Joseph. See* **Swain** & **Meek.**

Meerwarth, *H.* Ueber einen lebenden Lepidosiren. Zool. Garten, 1897, 38. Jahrg., 282. 1897.1

Meesters, —— Sur l'état de la pêche d'eau douce en Hollande. C. R. Mém. Congr. Intern. Aquicult. Pêche, 1900, 61–68. 1900.1

Mégnin, *Jean Pierre* [1828—] Epidémie sur les barbeaux de la Meurthe. C. R. Mém. Soc. Biol. Paris, 1885, 8. sér. **2**, 446–447. 1885.1

—— Sur le rôle pathogénique de certaines sporospermies. Bull. Soc. Zool. France, 1885, **10**, 351–352. 1885.2

—— Note sur quelques maladies des poissons. Bull. Soc. Centr. Aquicult. Pêche, 1890, **2**, 177–182. 1890.1

Méhely, *Lajos.* A származástan mai állása [Ueber den heutigen Stand der Descendenzlehre] Allatt. Kozl. Magyar Tars., Budapest, 1905, **4**, 1–13. 1905.1

Mehl, *Hugo F.,* & **Kahlenberg,** *L. See* **Kahlenberg** & **Mehl.**

Mehl, *Maurice G.* [Review of] A revision of the amphibia and pisces of the Permian of North America, by E. C. Case. Science, 1912, n. s. **36**, 408–409. 1912.1

Mehnert, *Ernst Hermann* [1850—] Kainogenese eine gesetzmässige Abänderung der embryonalen Entfaltung in Folge von erblicher Uebertragung in der Phylogenese erworbener Eigenthümlichkeiten. Morphol. Arbeit., 1897, **7**, 1–156. 1897.1

Ueber die Entfaltung des Extremitätenskelets bei den niederen Vertebraten.

—— Bemerkungen zu Keibel's Kritiken und Referate. Eine Replikation von Ernst Mehnert. Anat. Hefte, Wiesbaden, 1898, **12**, 549–565. 1898.1

Mehrdorf, *C.* Beiträge zur Kenntniss des anatomischen Baues und der Entwicklungsgeschichte der embryonalen Anhangsgebilde bei den lebendig gebärenden Haifischen. Rostock, 1890. 51 p. 2 pls. 8°. 1890.1

Mehwald, —— Ueber einen 375 Jahre alten Karpfen. Sitzber. Naturw. Ges. Isis Dresden 1872 (1873), 109. 1873.1

Meidinger, *Carl von* [1750–1820] Icones piscium Austriæ indigenorum, quos collegit, vivisque coloribus expresos edidit C. Baro de Meidinger. Vindobonæ, 1785–94. fol. 1785.1

Only 5 parts with 50 colored plates were issued.

Meier, *A.* Ein Delphin und ein *Lophius* [*piscatorius*] in der Ostsee.

Arch. Ver. Freunde Naturgesch. Mecklenburg, 1863, 17. Jahrg., 200–201. 1863.1

—— Zuchtversuche mit *Mesonauta insignis* Gthr. (*Acara festiva* Stdr.) Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 145–147. fig. 1915.1

Meier, *Hermann.* Kriechende, laufende, springende und klimmende Fische. Natur, 1860, **9**, 313–315; 340–342; 349–352; 363–366. pl. 1860.1

—— Ein Fisch der Fische fängt [*Echeneis remora*] Natur, 1861, **10**, 354–357. 1861.1

—— Der Karpfen. Natur, 1864, **13**, 161–163; 180–183. 1864.1
Translation of an article by T. C. Winkler.

—— Das Petermännchen (*Trachinus draco*) Natur, 1865, **14**, 302–304. 1865.1

—— Der Wels [*Silurus glanis*] Natur, 1865, **14**, 308–309. fig. 1865.2

—— Der Barsch. Natur, 1869, **11**, 25–27. 1869.1

—— Das Herings-Aas. Natur, 1869, **18**, 374–375; 382–384. 1869.2
Translation of an article by Axel Boeck.

—— Der Regenbogenfisch als Nestbauer. Natur, 1877, n. s. **3**, 152. 1877.1

—— Nestbau des Gurami. Natur, 1878, n. s. **4**, 26. 1878.1

Meigen, —— Ueber die Function der Schwimmblase bei den Fischen. Marienburg, 1856. 4°. 1856.1

Meiselbach, *Manfr.* Etwas über Welse im Zimmeraquarium. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 809–811. 4 figs. 1913.1

Meissner, *G.*, & **Billroth,** *T.* Sur l'organe électrique de la torpille. L'Institut, 1852, **20**, 85–87. 1852.1

Meissner, *L.* *Hemichromis bimaculata.* Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 189–191. 2 figs. 1910.1

Meissner, *Valerian Ivanovich.* Materialien zur vergleichenden Anatomie der Knorpelganoiden: I. Der Schultergürtel der Acipenseriden [Text in Russian] Trav. Soc. Nat. Univ. Kasan, 1907, **40**. 39 p. 2 pls. & 15 figs. 1907.1

—— Neue Beiträge zur vergleichenden Anatomie des Schultergürtels der Acipenseriden. Zool. Anz., 1907, **32**, 465–468. 2 figs. 1907.2

—— Systematischer Katalog der Wirbelthiere des zoologischen Museums der Kaiserlichen Universität Kazani. Theil IV. Pisces [Text in Russian] Kazan, 1907. 59 p. 1907.3

—— Bericht über die Arbeiten der biologischen Wolgas-Station im Frühling 1907 über die künstliche Befruchtung von *Acipenser ruthenus* [Text in Russian] Trd. Obšč. Jest., Saratov, 1908, **5**, pt. 3, 57–84. pl. 1908.1

—— Kurzer Bericht über eine Excursion an die Kamysch-Samaro-Seen [Text in Russian] Trd. Obšč. Jest., Saratov, 1908, **5**, pt. 3, 85–104. 1908.2

Meister, *U.* Die Züricher Fischerei-Ausstellung (3. Juni bis 3. Juli 1894) Illustr. Ausstellungs-Zeitg., 1894, 61–62. fig. Also separate; Zürich, 1894. 2 p. 8°. 1894.1

Meixner, —— Vom Schlammpeitzger. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 265–267. 3 figs. 1915.1

Mela, *Aukusti Johana,* formerly **Malmberg,** *A. J.* En blå och röd abborre. Meddel. Soc. Fauna & Flora Fenn., 1881, **6**, 255. 1881.1

—— Nya bidrag till Finlands fiskfauna. Meddel. Soc. Fauna & Flora Fenn., 1881, **6**, 254–255. 1881.2

—— Vertebrata fennica. Suomen luurankoiset eli luonnontieteellisen Suomen luurankoiseläimistö. Helsingfors, 1882. 440 p. 215 figs. 8°. 1882.1

—— Finlands fiskar, målade efter naturen. The fishes of Finland, drawn and colored from life by G. Sundman, with text [in Danish and English] by O. M. Reuter and A. J. Mela. 12 parts. Helsingfors, 1883–93. 41 col. pls. fol. 1883.1

—— Om *Abramis ballerus* och *Silurus glanis.* Meddel. Soc. Fauna & Flora Fenn., 1883, **9**, 162–163. 1883.2

—— Om *Abramis vimba*, *A. ballerus* och *Lucioperca sandra.* Meddel. Soc. Fauna & Flora Fenn., 1883, **9**, 174. 1883.3

—— Årsberättelse afgifven af intendenten för Sällskapets pro fauna et flora fennica zoologiska samlingar 1885. Meddel. Soc. Fauna & Flora Fenn., 1886, **13**, 220–222. 1886.1

Mela, *A. J.*

—— *Gobio fluviatilis.* Meddel. Soc. Fauna & Flora Fenn., 1886, **13**, 166. 1886.2

—— Arsberättelse afgifven af intendenten för Sällskapets pro fauna et flora fennica zoologiska samlingar 1887. Meddel. Soc. Fauna & Flora Fenn., 1888, **15**, 204–206. 1888.1

—— Arsberättelse afgifven af intendenten för Sällskapets pro fauna et flora fennica zoologiska samlingar 1888. Meddel. Soc. Fauna & Flora Fenn., 1888, **15**, 225–227. 1888.2

—— Havaintojen tekeminen talvella. Luonnon Ystävä, 1899, **3**, 181–182. 1899.1

—— Kuhan (*Lucioperca lucioperca* L.) levenemisestä Ahvenan saaristossa. Meddel. Soc. Fauna & Flora Fenn., 1900, **25**, 20–21. 1900.1

—— Zwei Funde von roten *Perca fluviatilis* [Text in Finnish] Luonnon Ystävä, 1902, **6**, 199. 1902.1

—— Aal (*Anguilla vulgaris*) in Nord-Sawalax [Text in Finnish] Luonnon Ystävä, 1903, **9**, 226. 1903.1

—— *Alosa finta* in Raumo [Text in Finnish] Luonnon Ystävä, 1903, **9**, 226. 1903.2

Mela, *Aukusti Johana,* & **Palmén,** *Johan Axel.* Djurgeografiska kartor tillhörande statistiska centralbyrån förevisade. Meddel. Soc. Fauna & Flora Fenn., 1883, **9**, 134–135. 1883.1

Mela, *Aukusti Johana,* & **Reuter,** *O. M. See* **Reuter & Mela.**

Mellenius, *Sam. Gabr.* Undersökning om Nyland och Tavastehus län, i anseende till dess läge, vidd, climat, våhrfloder, sjöar och vattuleder, naturs förmåner och brister, näringar, folkrikhet, politie- och cameral-författningar. Inaug. Dissert. Abo, 1789. 84 p. 4°. 1789.1

Pehr Adrian Gadd, *præses.*

Mellish, *John T.* Fish-culture. Proc. Trans. Nova Scotian Instit. Nat. Sci., 1879, **5**, pt. 1, 76–81. 1879.1

Melliss, *John Charles.* St. Helena. London, 1875. 8°. 1875.1

Pisces, p. 100–113. 3 pls.

Mello de Mattos, *J. M. de.* Os trabalhos recentes acerca de piscicultura em Portugal. Rev. Soc. Sci. Nat., Porto, 1894, **3**. 1894.1

Melnikov, *Nicol.* Ueber die Verbreitungsweise der Gefässe in den Häuten des Darmkanals der *Lota vulgaris.* Arch. Anat. Physiol., 1866, 587–591. pl. 1866.1

—— Die Lymphwege des Dünndarmes bei der Quappe [*Lota vulgaris*] Arch. Anat. Physiol., 1867, 512–516. fig. 1867.1

Melnikov, *V. S.* Beobachtungen am *Heros facetus,* seinem Leben und seiner Fortpflanzung in Aquarien [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1902, **8**, 260–271. pl. 1902.1

—— Beobachtungen an den Fischen Gurami (*Osphromenus trichopterus*) und *Trichogaster fasciatus* hinsichtlich ihres Lebens und ihrer Fortpflanzung im Aquarium [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1902, **9**, 288–299. pl. 1902.2

—— Beobachtungen über das Leben und die Vermehrung des getupften Gurami und des gebänderten Fadenfisches im Aquarium. Natur u. Haus, 1903, **11**, 169–172; 184–186. 1903.1

—— Zur Kenntnis der Fischereien in Nordost-Sibirien [Text in Russian] Russ. Sudochod., St. Petersb., 1910, **25**, pt. 9, 68–78; pt. 10, 103–116; pt. 11, 35–42; pt. 12, 55–74. 1910.1

Melsheimer, *Marcellus.* Beobachtungen über die Aale. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1876, 33. Jahrg., 84–87. 1876.1

—— Zur Naturgeschichte der Aale. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1877, 34. Jahrg., 98–99. 1877.1

—— Ueber bei Linz im Rhein gefangene Fische. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1878, 35. Jahrg. (4. ser. 5. Jahrg.), 95–98. 1878.1

—— Ueber ein vorzügliches Fischfutter [pulverisirte Eintagsfliegen] Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1878, 35. Jahrg. (4. ser. 5. Jahrg.), 98. 1878.2

Melville, *Alexander Gordon.* On the Lepidosiren. Rept. Brit. Assoc. Adv. Sci., 17. meet., 1847, 78.—L'Institut, **15**, no. 717, 319. 1847.1

Memmler, *M.* Die Zucht von *Fundulus arnoldi.* Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 358–359. fig. 1910.1

Mencl, *Emanuel.* Beiträge zur Histologie des elektrischen Zentrums bei *Torpedo marmorata* [Text in Bohemian] Vestn. Ceské Spol. Nauk, Prag, 1901, no. 20, 1–15; no. 28, 1–5. pls. 1901.1

i. Die Anastomosen der Ganglienelemente.
ii. Abnorme, pathologische Bildungen, etc.

—— Einige Bemerkungen zur Histologie des elektrischen Lappens bei *Torpedo marmorata.* Arch. Mikrosk. Anat., 1902, **60**, 181–189. pl. & 4 figs. 1902.1

—— Ein Fall von beiderseitiger Augenlinsenausbildung während der Abwesenheit von Augenblasen. Arch. Entw.-Mech., Leipzig, 1903, **16**, 328–339. pl. 1903.1

Anadidymus bei einem jungen *Salmo salar.*

—— Ist die Augenlinse eine Thigmomorphose oder nicht? Anat. Anz., 1903, **24**, 169–173. 15 figs. 1903.2

—— Kurze Bemerkungen über die Solgerschen intracellularen Fibrillen in den Nervenzellen von Scyllium. Sitzber. K. Böhm. Ges. Wiss. (math.-naturw. Cl.), 1903, no. 37. 5 p. pl. 1903.3

—— O samostatném vývoji čoček bez přítomnosti očí. Sitzber. K. Böhm. Ges. Wiss. (math.-naturw. Cl.) 1902 (1903), no. 53. 22 p. pl. & 2 figs. 1903.4

Salmo salar.

—— Zur Vakuolisation der Ganglienzellen. Anat. Anz., 1906, **28**, 216–222. 2 figs. 1906.1

Lobus electricus von Torpedo.

—— Erwiderung auf "Berichtigendes" von Růžička. Arch. Mikrosk. Anat., 1907, **70**, 170–172. 1907.1

Torpedo marmorata. A polemical article.

—— Ueber das Negativbild der "tigroiden Achsen" im Lobus electricus am Fibrillenpräparate. Anat. Anz., 1907, **30**, 624–630. 2 figs. 1907.2

Torpedo marmorata.

—— Neue Tatsachen zur Selbstdifferencierung der Augenlinse. Arch. Entw.-Mech., Leipzig, 1908, **25**, 431–450. 2 pls. 1908.1

Salmo salar.

—— Direkte Teilung von roten Blutkörperchen bei Scorpæna. Anat. Anz., 1910, **37**, 539–540. fig. 1910.1

Mende, *Traugott.* Die Karpfen-Fischerei zu Hammermühle bei Dobrilugk, Regierungsbezirk Frankfurt a. O. Circul. Deutsch. Fischerei Ver., 1873, no. 4, 100–101. 1873.1

Mendelssohn, *Maurice.* De l'action du radium sur la torpille (*Torpedo marmorata*) C. R. Acad. Sci. Paris, 1905, **140**, 463–466. 1905.1

Mène, *Ch.* Ueber künstliche Befruchtung der Fische. Polytechn. Journ. (Dingler), 1851, **120**, 231–233. 1851.1

Meneghini, *Giuseppe* [1811–1889] Description et figures d'un poisson, le *Dentex münsteri,* trouvé dans l'argile subapennine du Volterrano. C. R. Acad. Sci. Paris, 1864, **59**, 74. 1864.1

—— Descrizione del *Dentex münsteri.* Ann. Univ. Tosc. Pisa, 1866, **8**, 19–42. Abstract in Amer. Journ. Sci., 1866, 2. ser. **42**, 124. 1866.1

Menhuir, *W. H.* The teeth of fishes contrasted with those of other orders. Trans. Edinburgh Field Nat. Microsc. Soc., 1902, **4**, 272–277. 1902.1

Menke, *Heinrich.* Die Relikte der Eiszeit in unserer Tier- und Pflanzenwelt. Monatsh. Naturw. Unterr., 1914, **7**, 241–247. 2 figs. 1914.1

Incidental reference to fishes.

Menonville, *Nicolas Joseph Thiery de.* Travels [in 1777] to Guaxaca, capital of the province of the same name in the kingdom of Mexico (In Pinkerton's voyages, 1810, **13**, 770–876) 1810.1

Refers to several fishes of the gulf of Mexico, p. 770; 860–864; 870–876.

Mentzer, *Carl.* Beskrifning om staden Brahestad, jämte anmärkningar om salo Härad. Uppfostr. Sällsk. Tidn., 1782, no. 150–151, 597–600. 1782.1

Menzies, *Archibald* [1754–1842] Description of a new fish [*Echeneis lineata*] found in the Pacific ocean. Trans. Linn. Soc. London, 1791, **1**, 187–188. figs. 1791.1

—— Manuscript notes of A. Menzies, made during the voyage of the "Discovery" and the "Chatham" (In A voyage of discovery to the north Pacific ocean and round the world . . . performed in . . . 1790–1795, in the "Discovery" and the "Chatham." 3 vols. & atlas. London, 1798. illust. 4° & fol.) 1798.1

Edited with a preface by J. Vancouver and inserted at end of atlas.

Menzies, *J. A. R.* Exportation of salmon ova to New Zealand in 1876. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 994. 1878.1

– – – Shipment of salmon ova to New Zealand in 1877. Rept. U. S. Fish Comm. 1878 (1880), **6**, 865. 1880.1

Menzies (*junior*), *W. J. M.* The infrequency of spawning in the salmon. Rept. Fishery Board Salmon Fisheries, Glasgow 1911 (1912), pt. 1, 1–7. 2 pls. 1912.1

—— Scales of salmon of the river Add. Rept. Fishery Board Salmon Fisheries, Glasgow 1912 (1913), 1–6. pls. 1913.1

—— Further notes on the percentage of previously spawned salmon. Rept. Fishery Board Salmon Fisheries, Glasgow, 1914, **2**, 7–12. 4 pls. 1914.1

Mercadante, *L.*, **Jannaci,** *F.*, & **Adorno,** *M.* La pesca del pescespada (*Xiphias gladius*) in Calabria. Rivist. Mens. Pesca, Milano, 1906, **8**, 171–181; 215–227. 3 figs. 1906.1

Merciai, *Giuseppe. Lepidosiren paradoxa* Fitzg. Rivist. Ital. Sci. Nat., Siena, 1906, **26**, 59–61. 1906.1

Mercier, *L.* Contribution à l'étude de la phagocytose expérimentale. Arch. Zool. Expér. Gén., 1905, 4. sér. **3**, cxix–cciv. fig. 1905.1

Merk, *Ludwig.* Schleimabsonderung an der Oberhaut der Forellenembryonen. Wien, 1886. 2 pls. 8°. 1886.1

Merk, *M.* Individuelle Veränderungen im Zusammenhange mit der Fortpflanzungstätigkeit. Zool. Beobachter, Frankfurt a. M., 1911, **52**, 97–99. 1911.1

Merkel, *Fr.* Ueber die Endigungen der sensiblen Nerven in der Haut der Wirbelthiere. Rostock, 1880. 214 p. 15 pls. & figs. 1880.1

—— Betrachtungen über die Entwicklung des Bindegewebes. Anat. Hefte, 1909, **38**, 321–392. 6 pls. & 39 figs. 1909.1

Merkle, *H.* Das Plankton der deutschen Ostseefahrt Juli-August 1907. Wiss. Meeresuntersuch. Kiel (Abt. Kiel), 1910, n. s. **11**, 321–346. 4 figs. 1910.1

Merle, *Albert.* La pêche sur la côte orientale d'Afrique. Bull. Soc. Géograph. Commerc. Bordeaux, 1879, 2. sér., 350–357. 1879.1

Merle, *René.* Un poisson aérien: le protoptère. La Nature, 1913, **41**, pt. 1, 225–226. 5 figs. 1913.1

Mermet, *A.*, & **Delachanel,** *B. See* **Delachanel** & **Mermet.**

Merrem, *L.* Verzeichniss der rothblütigen Thiere in den Gegenden um Göttingen und Duisburg. Schrift. Ges. Naturf. Freunde Berlin, 1789, **9**, 198. 1789.1

Description of 26 species of fishes from the vicinity of Duisburg.

Merriam, *Clinton Hart* [1855 —] The fish of lake Champlain. Bull. U. S. Fish Comm. 1884, **4**, 287–288. 1884.1

Merrill, *George Perkins* [1854 —] Contributions to the history of American geology. Rept. U. S. Nat. Mus., 1904, no. 135, 189–734. 37 pls. 1904.1

Appendix B. Brief biographical sketches of the principal workers in American geology, p. 689–715.

—— Catalogue of the type and figured specimens of fossils, minerals, rocks and ores. Prepared under the direction of George P. Merrill, head curator of geology. II. Fossil vertebrates, fossil plants, minerals, rocks and ores. Bull. U. S. Nat. Mus., 1907, no. 53, pt. 2, 1–370. 1907.1

Contains a list of type specimens of fossil fishes in the U. S. National Museum.

Merritt, (*Miss*) *Onèra A.*, afterwards **Hawkes.** *See* **Hawkes,** (*Mrs.*) *Onèra A. Merritt.*

Merry, *Charles H.* The fish and fishing of the northwest. Amer. Angler, 1884, **6**, 33; 81. 1884.1

Mertens, *Robert.* Zur Lichtempfindlichkeit des *Danio albolineatus.* Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 225. 1915.1

Merton, *Adolf.* Die Buchmalerei in St. Gallen von neunten bis zum elften Jahrhundert. Leipzig, 1912. iii, 111 p. 100 pls. fol. 1912.1

In Plates l and lxiv are shown reproductions of pen-drawings of fishes taken from ninth century manuscripts. The figures illustrate the constellation Pisces in astronomical treatises.

Merwar, *Leopold.* Die Aufzucht des *Heterogramma corumbæ* Eigenmann & Ward. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 407–408. fig. 1913.1

Merz-Diebold, *W.* Maiendung der Fischer und Waidgesellen am Rhein, zu Baden, Zell, Zürich, Rümlang, Biel, Luzern und Rapperswil. Schweiz. Fischerei Zeitg., 1896, **4**, 28. Also separate; Pfäffikon-Zürich, 1896. 3 p. 8°. 1896.1

Mesaize, ——, & **Noel,** —— Sur le mulet de la Seine. Mag. Encycl. (Millin), 1799, **5**, pt. 5, 518–520. 1799.1

Meschinelli, *L.* La pisciculture en Italie. Piscicult. Prat., 1897, **3**, 40–44. 1897.1

—— L'*Ameiurus nebulosus* L. S. nel Vicentino. Rivist. Mens. Pesca, Milano, 1907, **9**, 49–50. 1907.1

Mesmer-Weber, *J.* Der Iltis als Fischfeind. Schweiz. Fischerei Zeitg., 1895, **3**, 109. Also separate; Pfäffikon-Zürich, 1895. 1 p. 8°. 1895.1

Mesnil, *Félix.* Sur le mode de résistance des vertébrés inférieurs aux invasions microbiennes artificielles. Inaug. Dissert. Sceaux, 1895. 61 p. pl. 4°. 1895.1

Mesnil, *Félix,* & **Caullery,** *Maurice.* *See* **Caullery** & **Mesnil.**

Mesnil, *Félix,* & **Laveran,** *A.* *See* **Laveran** & **Mesnil.**

Messenger, *E. M.* Large smelts. Chicago Field, 1878, **9**, 44. 1878.1

—— Lake Winnipissiogee [New Hampshire] trout. Forest & Stream, 1879, **12**, 15. 1879.1

Messing, *S. V.* Quelques données sur la question des voies optiques chez les poissons osseux [Text in Russian] Mém. Acad. Sci. St. Pétersb., 1907, 8. sér. **20**, pt. 10, 18. 2 pls. 1907.1

Mestre, *Arístides.* Las ciencias zoologicas en nuestra Universidád. Habana, 1915. 87 p. 8°. 1915.1

Contains notice of the ichthyological writings of Felipe Poey, Vilaró y Diaz and other Cuban naturalists.

Metaxa, *Luigi* [1778–1842] Smisurato pesce del peso di 4000 libbre preso nell' Adriatico. Roma, 1839. Ann. Med. Chirurg., Roma, 1839, fasc. 1, 35–38. 1839.1

Metcalf, *H. E.* The ampullæ of Lorenzini in *Acanthias vulgaris.* Trans. Amer. Micr. Soc., 1915, **34**, 131–148. 2 pls. fig. 1915.1

Primarily sense organs responding to pressure (currents of water, depth, possible response to vibration of deep notes) Mucus secretion secondary.

Metcalf, *Martin.* Identification of the Michigan grayling. Forest & Stream, 1874, **2**, 181. 1874.1

—— Success in propagating California mountain trout from eggs brought to Michigan by the United States Fish Commission. Bull. U. S. Fish Comm. 1883, **3**, 471. 1883.1

—— Planting whitefish and other salmonoids in inland lakes. Bull. U. S. Fish Comm. 1886 (1887), **6**, 422–423. 1887.1

Mether, —— Fenologiska iakttagelser. Utdr. K. F. Hush. Sällsk. Dagb., 1800, 173–176. 1800.1

Pisces, p. 174.

Métherie, *Jean Claude de la.* *See* **La Métherie,** *J. C. de.*

Methuany, *J. M.* Annual growth of landlocked salmon. Forest & Stream, 1879, **12**, 24. 1879.1

Methuen, *Paul A.* Description of a new Transvaal fish of the family Cyprinidæ. Ann. Transvaal Mus., 1911, **2**, 251–252. pl. 1911.1

—— Two interesting species of fish from the neighbourhood of Pretoria. Agric. Journ. Union South Africa, 1913, **6**, 502. pl. 1913.1

Synodontis zambesensis and *Gnathonemus macrolepidotus.*

Metschnikoff, *L.* *See* **Mechnikov,** *L.*

Metschnikoff, *Olga.* *See* **Mechnikov,** *O.*

Mettenheimer, *Carl Friedrich Christian.* Disquisitiones anatomico-comparativæ de membro piscium pectorale. Inaug. Dissert. Berolini, 1847. vi, 63 p. 2 pls. 1847.1

—— Anatomisch-histologische Untersuchungen über den *Tetragonurus cuvieri* Risso. Abh. Senckenberg. Naturf. Ges., 1854–55, 215–257. 1854.1

—— Anatomisch-histologische Untersuchungen über Tetragonurus Cuv. Frankfurt, 1855. 3 pls. 4°. 1855.1

—— Ueber Töne bei Knorpelfischen. Arch. Anat. Physiol. (Müller), 1858, 302–303. 1858.1

—— Ueber Bitterling und Malermuschel. Zool. Garten, 1869, 10. Jahrg., 378. 1869.1

Metz, *Ant.* Die Fischerei auf dem Bodensee. Ueberlingen [1888] 1888.1

Metz, *Charles Wilson.* The fishes of Laguna beach, California. Rept. Laguna Marine Labor., Claremont, 1912, **1**, 19–66. pls. 1912.1

Metz, *Charles William,* & **Jordan,** *David Starr. See* **Jordan** & **Metz.**

Metzger, *A.* Ueber Lachsschonreviere der Weser im Regierungsbezirk Minden. Circul. Deutsch. Fischerei Ver. 1877 (1878), no. 1, 4–5. 1878.1

—— Uebersicht der im Regierungsbezirk Cassel im Flussgebiet der Werra, Fulda und obern Weser einheimischen Fische. Landw. Zeitschr. Anz. Regsbez. Cassel, 1878, 164–169. 1878.2

—— Ueber die gegenwärtige Lage der Fischerei in Hessen und die daraus sich ergebenden Aufgaben des Fischerei-Vereins. Kassel, 1879. 15 p. 1879.1

—— Ueber Laichplätze des Lachses im Emsgebiet und über Massregeln zur Hebung des Lachsstandes daselbst. Circul. Deutsch. Fischerei Ver., 1879, no. 5, 163–165. 1879.2

—— Beiträge zur Statistik und Kunde der Binnenfischerei des preussischen Staates. Berlin, 1880. vii, 148 p. 2 pls. & fig. 8°. 1880.1

—— Fischerei und Fischzucht in den Binnengewässern (In Lorey's Handbuch der Forstwissenschaft, vol. ii, p. 449–548. Tübingen, 1903) 1903.1

Metzges, *Peter.* Ein neuer Beitrag zur Pyrrhulina-Frage. Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 52. 1908.1

Meugnot, *A.* La fraye de la carpe et son élevage pendant le premier été. Bull. Piscicult. Toulouse, 1908, 9–15. 1908.1

—— Le poisson-chat (*Ameiurus nebulosus*) observé dans un étang de 6 hectares de 1901 à 1907. Bull. Piscicult. Toulouse, 1908, 19–28. 1908.2

Meunier, ——, & **Sonnerat,** *P. See* **Sonnerat** & **Meunier.**

Meunier, *Amédé Victor* [1817–1903] Piscicultura Joseph Remy. O Brazil Agricola, 1863, **1**, 57–59. 1863.1

—— Les animaux à métamorphoses. Tours, 1867. 8°. 1867.1

Les poissons, p. 109–128.

—— Les grandes pêches. Paris, 1868. 85 figs. 8°. 1868.1

—— The same. 2. ed. Paris, 1871. 12°. 1871.1

Meunier, *Stanislas.* Découverte d'un abondant gisement d'*Hemirhynchus* [*Palæorhynchus*] *deshayesi* dans le calcaire grossier de Puteaux (Seine) C. R. Acad. Sci. Paris, 1872, **74**, 822–823. 1872.1

Meuron, —— *de.* Recherches sur le développement du thymus et de la glande thyroide. Recueil Zool. Suisse, 1886, 1. sér. **3**. Also separate; Genève, 1886. 1886.1

Meyer, —— *Scyllium canicula* breeds in captivity. Zool. Garten, 1872, 371. 1872.1

—— Bericht an den Herrn Minister für Landwirthschaft, Domänen und Forsten über den Fischpass bei Hanekenfähr. Circul. Deutsch. Fischerei Ver., 1879, no. 4, 137–139. 1879.1

—— Iakttagelser om lax- och sikynglets tillväxt. Fiskeritidskr. Finl., 1899, **8**, 94. 1899.1

Meyer, *Adolf Bernhard* [1840 —] *Ceratodus forsteri* and *C. miolepis.* Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 368. 1875.1

—— On the habitat [in Gorontalo, North Celebes] of Peristethidion [*P. prionocephalum* Dum.] Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 371. 1875.2

—— Sawfish [*Pristis perrotetti*] inhabiting fresh water. Nature, 1876, **13**, 167. 1876.1

—— Catálogo de los peces recolectados en el archipiélago de las Indias orientales durante los años 1870 á 1873. Ann. Soc. Españ. Hist. Nat., Madrid, 1885, **14**, 5–49. 1885.1

Meyer, *Adolf Bernhard,* & **Helm,** *F.* VII–X. Jahresbericht (1891–1894) der ornithologischen Beobachtungstationen im Königreiche Sachsen. Mit einem Anhange: Die sonstige Landesfauna betreffende Beobachtungen. Berlin, 1896. 162 p. 4°. 1896.1

Meyer, [*Christian Erich*] *Hermann von* [1801–1869] For memorial notice, *see* Zittel, K. A. von. Denkschrift auf Christian Erich Hermann von Meyer. München, 1870. 4°.

—— Einiges über Frankfurt's geognostiche Beschaffenheit, bei Gelegenheit der kürzlich daselbst entdeckten

fossilen Fischreste. Arch. Gesammt. Naturl. (Kastner), 1826, **8**, 437–444. 1826.1

—— Vorkommen des *Lebias meyeri* Agass., eines fossilen Fisches, im Thone von Frankfurt a. M. Museum Senckenberg., 1831, **1**, 282–285. 1831.1

—— *Perca* (*Smerdis?*) *laurenti*, aus einem Tertiärgebilde Aegyptens. Palæontographica 1846–51 (1851), **1**, 105. pl. 1847.1

—— Vorläufige Uebersicht der im dem Muschelkalk Ober-Schlesiens vorkommenden Saurier, Fische, Crustaceen und Echinodermen, nach der Sammlung des Herrn Mentzel in Königshütte. Uebersicht Schles. Ges. Breslau, 1847, 61–68. 1847.2

—— Die fossilen Fische aus dem Tertiärthone von Unter-Kirchberg. Neues Jahrb. Mineral., 1848, 780–784. 1848.1

—— Die fossilen Fische aus den tertiären Süsswasser-Gebilden in Böhmen. Neues Jahrb. Mineral., 1848, 424–431. 1848.2

—— Fische, Crustaceen, Echinodermen und andere Versteinerungen aus dem Muschelkalk Oberschlesiens. Palæontographica 1846–51 (1851), **1**, 216–280. pl. & figs. 1849.1

Hybodus, Acrodus and various ganoids.

—— Fossile Fische aus dem Muschelkalk von Jena, Querfurt und Esperstädt. Palæontographica 1846–51 (1851), **1**, 195–208. Also separate; Cassel, 1853. 6 pls. 1851.1

Saurichthys, Charitodon and Pygopterus.

—— *Myliobates pressidens*, *Cobitis longiceps* und *Pyncnodus faba*, drei Tertiärfische. Palæontographica 1849–52 (1851), **1**, 149–152. 1851.2

—— *Placothorax agassizi* und *Typodus glaber*, zwei Fische im Uebergangskalke der Eifel. Palæontographica 1846–51 (1851), **1**, 102–104. 1851.3

—— Sphyrænodus aus dem Tertiärsande von Flonheim. Palæontographica 1846–51 (1851), **1**, Lief. 6, 280–282. fig. 1851.4

—— Fossile Fische aus dem Tertiärthon von Unter-Kirchberg an der Iller. Palæontographica, 1852, **2**, 85–113. 1852.1

—— *Coccosteus hercynius*. Palæontographica, 1854, **3**, 82–84. pl. 1854.1

—— Squaliden-Reste aus dem Posidonomyenschiefer des Oberharzes bei Ober-Schulenburg. Palæontographica, 1854, **3**, Lief. 1, 53–54. pl. 1854.2

—— *Physichthys höninghausi* aus dem Uebergangskalke der Eifel. Palæontographica, 1855, **4**, Lief. 3, 80–83. pl. 1855.1

—— Neuer Beitrag zur Kenntniss der fossilen Fische aus dem Tertiärthon von Unter-Kirchberg. Palæontographica, 1858, **6**, 22–30. 1858.1

Remains of Cyprinus, Leuciscus, Solea and Gobius are described.

—— *Archæonectes pertusus* aus dem Ober-Devon der Eifel. Palæontographica, 1859, **7**, Lief. 1, 12–13. pl. 1859.1

Asterodermus platypterus aus dem lithographischen Schiefer von Kelheim. Palæontographica, 1859, **7**, 9–11. pl. 1859.2

—— Fossile Chimæriden aus dem Portland von Hannover. Palæontographica, 1859, **7**, 14–18. pl. 1859.3

—— *Perca alsheimensis* und *Perca moguntina* aus dem mittel-rheinischen Tertiär-Becken. Palæontographica, 1859–61, **7**, 19–24. pl. & figs. 1859.4

—— *Squatina* (*Thaumas*) *speciosa* aus dem lithographischen Schiefer von Eichstädt. Palæontographica 1859–61 (1859), **7**, 3–8. pl. 1859.5

—— *Osteophorus römeri* aus dem permischen System des westlichen Ural's. Palæontographica 1859–61 (1860), **7**, 99–104. pl. 1860.1

—— *Chimæra* (*Ganodus*) *avita* [= *Ischyodus avitus*] aus dem lithographischen Schiefer von Eichstädt. Palæontographica 1861–63 (1863), **10**, 87–95. 1863.1

—— *Sphyræna tyrolensis* aus dem Tertiär-Gebilde von Häring in Tyrol. Palæontographica 1861–63 (1863), **10**, 305–308. fig. 1863.2

—— *Archæotylus ignotus*. Palæontographica, 1864, **11**, 285–288. fig. 1864.1

—— [Neue Schildkröte, *Parachelys eichstättensis;* ein neuer Fisch, *Archæotylus ignotus; Prosopon neuhausense* aus dem weissen Jura; über *Belodon plieningeri*] Neues Jahrb. Mineral., 1864, 206–211. 1864.2

Meyer, *C. E. H.*
—— [Vorkommen des *Gobius nassoviensis* in Thon bei Nierstein; Mittheilungen über die von Schlagintweit aus Indien und Hochasien mitgebrachten fossilen Knochen und Zähne, und über den Character von Asiens fossiler Wirbelthierfauna] Neues Jahrb. Mineral., 1865, 603–610. 1865.1

Meyer, *[Christian Erich] Hermann von,* & **Reuss,** *August Emanuel. See* **Reuss** & **Meyer.**

Meyer, *[Christian Erich] Hermann von,* & **Thiollière,** *Victor. See* **Thiollière** & **Meyer.**

Meyer, *Christian Friedrich.* Versuch einiger Naturbeobachtungen des gebürgigten Süderlands der Grafschaft Mark, Westphalens, worin das Wasser, die Luft, Grund und Boden, Gewächse, Metalle, Mineralien, Steinarten, Thiere, Vögeln, Fische und Einwohner in kurzen betrachtet werden. 2 vols. Düsseldorff, 1798–99. 8°. 1798.1

Meyer, *Fred. Detlef.* On the poisonous quality of a species of West Indian fish. Philad. Med. Phys. Journ., 1805, **1**, 43–48. 1805.1

Meyer, *Fritz.* Beitrag zur Anatomie des Urogenital-Systems der Selachier und Amphibien. Sitzber. Naturf. Ges. Leipzig, 1875, 2. Jahrg., 38–44. 1875.1

—— Ueber die Nieren der Flussneunaugen (*Petromyzon fluviatilis*) Centralbl. Med. Wiss., 1876, **14**, 20–21. 1876.1

Meyer, *Georg Hermann.* Ueber den Bau der Haut von Dasypus und der Stacheln von Raja. Mitth. Naturf. Ges. Zürich, 1847–48, **1**, 87–92. 1847.1

Meyer, *H.* Lofotfischerei. Schweiz. Wochenschr. Chem., 1904, **42**, 178–179. 1904.1

—— Die Ems als Lachsfluss. Allgem. Fischerei Zeitg., 1906, 31. Jahrg., 267–270. 1906.1

Meyer, *Heinrich Adolph* [1822–1889] Vorläufiger bericht der wissenschaftlichen Kommission in Kiel zur Erforschung der deutschen Meere über die diesjährige Expedition. Circul. Deutsch. Fischerei Ver., 1872, no. 10, 242–245. 1872.1

—— Beobachtungen über das Wachsthum des Herings im westlichen Theile der Ostsee. Jahresb. Komm. Deutsch. Meere Kiel, 1878, 4–6. Jahrg., 227–252. 1878.1

—— Das Wachsthum des Härings. Naturforscher, 1878, 11. Jahrg., 346–347. 1878.2

—— Biologiske jagttagelser over den kunstige opklaekning af sild fra den vestlige del af Ostersoen. Norsk. Tidskr. Fiskeri, 1879, n. s. 5. Jahrg., 145–158. 1879.1

—— Influence of temperature on the development of herring eggs. Chicago Field, 1879, **11**, 51; 191. 1879.2

—— Note in reference to the retardation of development of the American ale-wife. Forest & Stream, 1879, **12**, 225. 1879.3

—— Biological observations made during the artificial raising of herring in the western Baltic. Rept. U. S. Fish Comm. 1878 (1880), **6**, 629–638. 1880.1

Meyer, *Heinrich Adolph,* & **Mobius,** *Karl.* Fauna der Kieler Bucht. Leipzig, 1865. 26 col. pls. fol. 1865.1

Meyer, *Heinrich Adolf,* & others. Popular extracts from the investigation of the Commission for the scientific examination of the German seas. Rept. U. S. Fish Comm. 1879 (1882), **7**, 525–557. 17 figs. 1882.1

Meyer, *J.* Der practische Fischzüchter oder der rationelle Fischzucht-Betrieb. Stuttgart, 1877. vii, 112 p. 8°. 1877.1

—— Zum Transport von Fischbrut. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 81–82. 1878.1

—— Handbuch des Fischerei-Sport; praktischer Leitfaden zur Fischkunde, zum Betriebe der Angel- und Netzfischerei, wie der Fischzucht. Nebst Anhang über Fischfeinde, Naturgeschichte, Fang und Zucht der Krebse. Auf Grund der neuesten Erfahrungen bearbeitet. Wien, 1881. illust. 8°. 1881.1

Meyer, *J. de.* Etude sur les altérations du courant d'action du cœur de "*Scyllium canicula.*" Arch. Intern. Physiol., 1910, **10**, 100–135. 2 pls. 1910.1

Meyer, *M. Wilhelm.* Die Riesen der Vorwelt. Jahresber. Ver. Nat. Linz, 1907, 36. Jahrg., 25–28. 1907.1

Meyer, *O.* Fish otoliths of the southern Old Tertiary. Amer. Naturalist, 1889, **23**, 42–43. 1889.1

Meyer, *Paul.* Alexandre le Grand dans la littérature française du moyen-âge. Paris, 1886. 1886.1

On Pseudo-Callisthenes.

Meyer, *Philip.* Reference to the development of dermal denticles of sharks. Mitth. Zool. Stat. Neapel, 1886, **6**, 221–229; 281. 1886.1

Meyer, *Rudolph.* Der fischartige Schuppenmolch (*Protopterus annectens* Ow.) und sein Cocon. Zool. Garten, 1866, 7. Jahrg., 392–394. 1866.1

—— Die Fortpflanzung der Katzenhaie (*Scyllium catulus*) im Aquarium zu Hamburg. Zool. Garten, 1872, 13. Jahrg., 371–372. 1872.1

Meynell, *T.* On the fishes of Yorkshire. Rept. Brit. Assoc. Adv. Sci., 14. meet., 1844, 62–63. 1844.1

Meyrick, *Edward.* List of vertebrate animals (except birds) of the Marlborough district. Rept. Marlborough College Nat. Hist. Soc., 1897, no. 45, 38–42. 1897.1

Meza, *Arcadio.* La industria de la pesquera. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 116–119. 1912.1

Miall, *Louis Compton* [1842 —] On the structure of ganoid fishes, introductory to an account of the ganoid fishes of the Yorkshire coal-field. Proc. Yorkshire Geol. Soc., 1872, **1**, 24–45. 1872.1

—— On the composition and structure of the bony palate of Ctenodus. Quart. Journ. Geol. Soc., 1874, **30**, 772–775. pl. 1874.1

—— *Ctenodus cristatus.* Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 436. 1875.1

—— On the structure of the skull of Rhizodus. Quart. Journ. Geol. Soc., 1875, **31**, 624–627. fig. 1875.2

—— Monograph of the sirenoid and crossopterygian ganoids. Palæontogr. Soc. London, 1878, **32**, 1–32. 4 pls. — *Ibid.*, 1907, **61**, 33–34. 1878.1

An emended title-page reading: "The sirenoid ganoids, with a description of the British fossil teeth of Ceratodus," accompanied by a post-script of two pages by A. S. Woodward, was published in the Palæontographical Society volume for 1907. It contains references to the recent literature of Ceratodus.

—— On some bones of Ctenodus. Proc. Yorkshire Zool. Polytechn. Soc., 1878–81, n. s. **7**, 289–299. 12 figs. 1878.2

—— On the genus Ceratodus, with special reference to the fossil teeth found at Malédi, central India. Palæont. Indica, 1878, 4. ser. **1**, 10–17. pl. 1878.3

—— Animals of the Coal Measures (In Coal, its history and its uses, etc., edited by Prof. Thorpe. London, 1878. xii, 363 p. illust. 8°) 1878.4

—— On the structure of ganoid fishes, introductory to an account of the ganoid fishes of the Yorkshire coal-field. Proc. Yorkshire Geol. Polytechn. Soc. 1871–77 (1879), **6**, 24–25. 1879.1

—— Description of the remains of Megalichthys in the Leeds museum. Leeds Philos. Lit. Soc., 1885. 16 p. 2 pls. & 9 figs. 1885.1

—— Malhamharn and its fish. Handbook prepared for meeting of British Association, 1890. York, 1890. 1890.1

—— Note on the development of the eel. Rept. Brit. Assoc. Adv. Sci., 67. meet., 1897, 1–17. 1897.1

—— History of biology. London, 1911. 151 p. illust. 8° (The Library of science series) 1911.1

Chronological table, p. 141–146. Bibliography, p. 147–148.

—— The early naturalists, their lives and work (1530–1789) London, 1912. 396 p. 8°. 1912.1

Contains an interesting account of the fathers of modern ichthyology.

Miall, *Louis Compton,* & **Egerton,** *(Sir) Philip de Malpas Grey. See* **Egerton & Miall.**

Michael, *Ellis L.* Catalogue of Michigan fish. 16. Rept. State Board Fish Comm., 1906. 45 p. — Bull. Michigan Fish Comm., no. 8. 45 p. 1906.1

Michael, *Richard* [1869 —] Ueber eine neue Lepidosteiden-Gattung aus dem oberen Keuper Oberschlesiens. Zeitschr. Deutsch. Geol. Gesell., 1894, **45**, 710–729. 2 pls. — Jahresber. Schlesisch. Gesell., **71**, 71–74. Also separate; Berlin, 1893. 2 pls. 8°. 1894.1

—— Ueber Fischzähne aus den turonen Kalksteinen von Oppeln. Jahresber. Schlesisch. Gesell., 1894, **71**, 70–71. 1894.2

—— Die Geologie des oberschlesischen Steinkohlenbezirkes. Abh. Preuss. Geol. Landesanst., 1913, n. s. Heft. 71. 415 p. 18 pls. & 73 figs. 1913.1

Michahellis, *C. W.* [— 1835] Neue Fische des adriatischen Meeres. Isis (Oken), 1829, 1011–1015. *Ibid.*, 1830, 252–255. *Ibid.*, 1831, 199–204. — Bull. Sci. Nat. (Férussac), **22**, 134–136; 272–273. 1829.1

—— Ueber die Pleuronectiden des adriatischen Meeres. Isis (Oken), 1829, **11**, 1015. — Bull. Hist. Nat. (Férussac), **22**, 136. 1829.2

—— *Rhombus setiger*, nova species. Bull. Sci. Nat. (Férussac), 1830, **22**, 136–137. 1830.1

—— *Scyphius cultrirostris*, n. sp., un poisson de la mer Adriatique. Bull. Sci. Nat. (Férussac), 1830, **22**, 272–273. 1830.2

Michailovsky, *M. See* **Mikhailovskiĭ,** *M. M.*

Michon, *V.* Conseils pour la pêche du barbeau. Le Pêcheur, 1896, 2. sér. 7. année, **1**, no. 155, 139. 1896.1

Middendorff, *Alexander Theodor von* [1815–1894] Reise in den äussersten Norden und Osten Siberiens während . . . 1843 und 1844, etc. 4 vols. in 5 & atlas. St. Petersburg, 1847–75. illust. 4°. 1848.1

Bd. i, Theil 1. Fossile Fische, bearbeitet von Johannes Müller. 1848.

Miehe, *Hugo.* Das Silberfeld des *Haplochilus panchax* und seine Reaktion auf Licht. Abh. Sächs. Ges. Wiss. (math.-physik. Cl.), 1911, **32**, 362–375. 3 figs. 1911.1

—— Ueber den Okzipitalfleck von *Haplochilus panchax.* Biol. Centralbl., 1911, **31**, 732–733. 1911.2

Mieli, *Aldo.* Le scuole Ionica, Pythagorica ed Eleata; i pre-Aristotelici, I. Firenze, 1916. xvi, 503 p. 8°. 1916.1

Review by D'Arcy W. Thompson in Nature, 1916, **98**, 165–167.

Mierendorff, *Friedrich Wilhelm.* De hepate piscium disquisitiones quædam. Inaug. Dissert. Berolini, 1817. 8°. 1817.1

Mierzejewski, *Ladislaus von.* Verzeichnis der Wirbeltiere der Insel Oesel (Livland, Russland) Verh. Zool. Bot. Ges. Wien, 1910, **60**, 335–349. 1910.1

40 species of freshwater fishes are listed.

Miescher, *Friedrich* [1811–1887] Ueber die von Prof. Mayer entdeckten Organe bei den nicht electrischen Rochen. Ber. Naturf. Ges. Basel, 1844, **6**, 107–111. 1844.1

Miescher-Ruesch, *F.* Ueber die Veränderungen, welche im Körper des Rheinlachses vor sich gehen während seines bis zu einem Jahre dauernden Aufenthaltes im Süsswasser. Verh. Schweiz. Naturf. Ges. Bern 1878 (1879), **61**, 120–121. 1879.1

—— Statistische und biologische Beiträge zur Kenntniss vom Leben des Rheinlachses im Süsswasser. Internat. Fischerei Ausstellung Berlin, 1880, Schweiz. Katalog, 154–231. Also separate; Leipzig, 1880. 78 p. 8°. 1880.1

—— Ueber das Leben des Rheinlachses im Süsswasser. I. Abhandlung. Die Milz des Rheinlachses und ihre Veränderungen. Arch. Anat. Physiol. (*Anat. Abth.*), 1881, 193–218. 2 pls. 1881.1

—— Contributions to the biology of the Rhine salmon. Rept. U. S. Fish Comm. 1880 (1883), **8**, 427–474. 1883.1

—— Recherches sur la constitution chimique des spermatozoaires du saumon du Rhin. C. R. Soc. Helvét. Sci. Nat., 75. sess., 1892, 71. 1892.1

—— Physiologisch-chemische Untersuchungen über die Lachsmilch. Arch. Exper. Pathol. & Pharm., 1896, **37**, 100–156. 1896.1

Mihata, *M.*, **Otsuki,** *S.*, **Inouye,** *R.*, **Bharatkar,** *K. C.*, & **Suzuki,** *U. See* **Suzuki, Mihata** & others.

Mikhailovskiĭ, *M. M.* On an exceptionally large *Orthagoriscus mola* L. [Text in Russian] Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1903, **8**, xlvi–xlvii. 1903.1

—— On two little-known coregonids from lake Onega [Text in Russian] Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1903, **8**, 345–355. 1903.2

—— Sur l'ichthyofaune de l'île Kolgujev [Text in Russian] Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1903, **8**, 56–60. 1903.3

Miklucho-Maclay, *N. de. See* **Miklukho-Maklai,** *Nikolai Nikolaevich.*

Miklukho-Maklai, *Nikolai Nikolaevich* [1848–1888] Ueber ein Schwimmblasenrudiment bei Selachiern. Jena. Zeitschr. Naturw., 1867, **3**, 448–453. pl. 1867.1

—— Beitrag zur vergleichenden Anatomie des Gehirns. Jena. Zeitschr. Naturw., 1868, **4**, 553–569. figs. 1868.1

—— Beiträge zur vergleichenden Neurologie der Wirbelthiere. I. Das Gehirn der Selachier. II. Das Mittelhirn der Ganoiden und Teleostier. Leipzig, 1870. 74 p. 7 pls. 4°. 1870.1

—— Dentition of young cestracionts. Proc. Linn. Soc. New South Wales, 1879–80, **3**, 306–326. 1879.1

Miklukho-Maklai, *Nikolai Nikolaevich,* & **Gegenbaur,** *Carl.* Ueber das Gehirn der Chimära. Jena. Zeitschr. Naturw., 1870, **5**, 132. 1870.1

Miklukho-Maklai, *Nikolai Nikolaevich,* & **Macleay,** *William.* Plagiostomata of the Pacific. Parts I–III. Proc. Linn. Soc. New South Wales, 1879, **3**, 306–334. *Ibid.*, 1884, **8**, 426–431. pl. *Ibid.*, 1886, **10**, 673–678. 2 pls. 1879.1

Mikolay, *A.* *Dormitator maculatus* (Bloch) eine Grundel aus Mexico. Importiert Oktober 1908. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 337–338. fig. 1909.1

Milde, *C. J.* Eine Varietät von *Leuciscus rutilus* L. in der Trave. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1873, 26. Jahrg., 114–115. 1873.1

Miles, *George W.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 437. 1879.1

—— A defense of the humble dogfish. Trans. Amer. Fisheries Soc. 1912 (1913), 51–60. 1913.1

Milewski, *A.* Das Geheimnis der Schleierfischzucht. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 359–361. 1910.1

—— Neues über den Scheibenbarsch. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 162–164; 727–729. 1910.2

—— Ein misslungener Versuch bei der Scheibenbarsch-Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 759–761. fig. 1911.1

—— *Acara bimaculata.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 47–50. 1912.1

—— Darwinsche Theorie und Goldfische. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 31–34. 6 figs. 1912.2

—— Ueber das Entstehen der Goldfischrassen. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 428–431. 1912.3

—— Ueber das Wachstum der Fische. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 206–208. 1912.4

—— *Xiphophorus brevis* Regan. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 379–380. 1912.5

—— *Acara bimaculata.* Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 465–466. fig. 1913.1

—— Gesammeltes über *Danio rerio.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 470–472; 486–489. fig. 1913.2

—— Gesammeltes über *Fundulus gularis* var. blau. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 302–304; 320–322; 337–339; 355–356. fig. 1913.3

—— Gesammeltes über *Haplochilus chaperi* Sauvage. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 698–700; 717–719; 739–740. fig. 1913.4

—— *Haplochilus calliurus.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 566–567; 582–583. 3 figs. 1913.5

—— Der Scheibenbarsch (*Mesogonistius chætodon* [Gill] Baird) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 640–641. 1913.6

——Zur Vermehrung der Tetragonopterinen. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 129–130. fig. 1913.7

—— Zur Zucht des *Trichogaster lalius.* Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 622–623. 1913.8

—— Aus dem Leben der Quappe (*Lota lota* L. = *Lota vulgaris*) Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 237–240. fig. 1914.1

—— Ergänzendes über *Monocirrhus polyacanthus* Heckel. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 807–809. fig. 1914.2

—— Die Ichthyophthirius-Seuche, Ursache, Wesen, Behandlung. Darstellung der häufigsten Fischkrankheit. Leipzig, 1914. 16 p. figs. 8°. 1914.3

—— *Leporinus affinis* Günther. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 783–785. 2 figs. 1914.4

Milewski, *A.*

—— *Psettus sebæ* C. & V. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 751–753. 3 figs. 1914.5

—— Sensationelles über den Schleierfisch. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 688–690; 778. fig. 1914.6

Entwicklung und Ueberwinterung in freier Natur in einem Weiher der Umgebung von Berlin.

—— Ueber die Gehirnbetätigung der Fische. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 667–669. 1914.7

—— Weiteres über den Blätterfisch, *Monocirrhus polyacanthus* Heckel. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 477–480. fig. 1914.8

—— *Apomotis cyanellus* Rafin. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 301–302. fig. 1915.1

—— Beobachtungen über die Entwicklung des Laiches der Plötze (*Leuciscus rutilus* L.) im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 314–316. 1915.2

—— Die bisher eingefürten "Kopfsteher." Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 494–496. 3 figs. 1915.3

—— Haplochilus spec. (*H. cameronensis*) aus Cap Lopez var. blau. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 229–232. fig. 1915.4

—— Der Keilfleck-Cichlide aus dem Amazonenstrom [Noch unbestimmt] Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 157–158. 2 figs. 1915.5

—— *Leporinus fasciatus* Günther. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 133–134. 3 figs. 1915.6

—— *Plecostomus commersoni* Lacép. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 537–539. fig. 1915.7

—— *Pœcilobrycon unifasciatus* Steind. und *Pœcilobrycon trifasciatus* Steind. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 389–390. 2 figs. 1915.8

—— Der Sommerschlaf der Fische. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 357–358. fig. 1915.9

—— Ueber *Betta bellica* Sauv. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 85–87. fig. 1915.10

—— Ueber den Gesichtssinn der Fische. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 503–506. 1915.11

—— Die Gasteropelecus-Arten. Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 57–60. fig. 1916.1

—— Der Riesenwels (*Silurus glanis* L.) im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 143–145. 1916.2

—— Weiteres über *Psettus sebæ* C. u. V. Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 166–169. 4 figs. 1916.3

Milker, —— *von.* Das Erträgniss eines Karpfen-Weihers. Mitth. Fischereiwesen, München, 1877, 2. Jahrg., 67–68. 1877.1

Mill, *N.* On changing the residence of fishes. Ann. Philos., 1825, n. s. **9**, 379–380. 1825.1

Millar, *A. D.* Zoological notes from Natal. A monstrous ray or devil-fish. Zoologist, 1899, 4. ser. **3**, 145–148. pl. 1899.1

Miller, *C.* Tierdarstellungen im Mittelalter. 53. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1897, xlix–li. 1897.1

Refers to codices of "Das Buch der Natur" by Konrad of Megenberg, and of the "Reisebeschreibung" of Sir John Mandeville, both containing animal drawings. *See also* Merton, A., 1912.1, *supra.*

Miller, *Howard.* An eel in the Kiskiminetas. Chicago Field, 1879, **11**, 148. 1879.1

Miller, *Hugh* [1802–1856] The Old Red Sandstone; or New walks in an old field. Edinburgh, 1841. xxiii, 275 p. 10 pls. 8°. 1841.1

A third English edition was published in 1847, and an American in 1859.

—— The fish beds in the Old Red Sandstone of the neighbourhood of Cromarty. Proc. Geol. Soc. London, 1842, **3**, 124. — Phil. Mag., London, 3. ser. **15**, 405. 1842.1

—— [Notes on Pterichthys] (In Egerton, P. M. G. Palichthyologic notes, supplemental to the works of Prof. Agassiz. Quart. Journ. Geol. Soc., 1848, **4**, 303–312. figs.) 1848.1

—— [On the Asterolepis, and other allied genera of fossil fishes from the Old Red Sandstone] Gardeners' Chronicle, 1848, 863. 1848.2

—— Foot-prints of the Creator; or, the Asterolepis of Stromness. London & Edinburgh, 1849. xvi, 313 p. illust. 8°. 1849.1

American edition, with a memoir of the author by Louis Agassiz. Boston, 1852. 338 p. 8°.

—— On certain extraordinary peculiarities of structure in the more ancient ganoids. Rept. Brit. Assoc. Adv. Sci., 20. meet., 1850, pt. 2, 91–93. 1850.1

—— The testimony of the rocks; or geology in its bearings on the two theologies, natural and revealed. Edinburgh, 1857. xii, 500 p. illust. 8°. 1857.1

Lecture ii. The palæontological history of animals. Pterichthys, sharks, ganoids and teleosts, p. 57–114.

—— The Old Red Sandstone; or new walks in an old field; to which is appended a series of geological papers read before the Royal Physical Society of Edinburgh. Boston, 1859. 427 p. 14 pls. 1859.1

Original edition published at Edinburgh, 1841.

Miller, *Hugh,* & **Egerton,** *(Sir) Philip de Malpas Grey. See* **Egerton & Miller.**

Miller, *John.* On the so-called hyoid-plate of the Asterolepis of the Old Red Sandstone. Geol. Mag., 1869, **6**, 384.—Rept. Brit. Assoc. Adv. Sci., 41. meet., 1871, 106–107. 1869.1

Miller, *John F.* Proposed introduction of Hawaiian mullet into the United States. Bull. U. S. Fish Comm. 1884, **4**, 141–142. 1884.1

Miller, *Newton.* The fishes of the Motagua river, Guatemala. Bull. Amer. Mus. Nat. Hist., 1907, **23**, 95–123. 6 figs. 1907.1

Miller, *Phillip.* The practical gardener . . . with a treatise on the making of fish ponds and breeding and rearing of fish. London, 1810. 8°. 1810.1

Fish-ponds, etc., p. 677–679.

Miller, *Samuel A.* [1836?–1897] The American Palæozoic fossils; a catalogue of the genera and species, with names of authors, dates . . . and the etymology and signification of the words, and an introduction devoted to the stratigraphical geology of the Palæozoic rocks. Cincinnati, 1877. xv, 246 p. 1877.1

—— The same. 2. ed. Cincinnati, 1883. 334 p. 8°. 1883.1

—— North American geology and palæontology, for the use of amateurs, students and scientists. Cincinnati, 1889. 664 p. 1177 figs. 1889.1

1. Appendix, 1892. p. 665–718.
2. Appendix, 1897. p. 719–793.

Miller, *Samuel Henry,* & **Sketchcrly,** *S. B. J.* The Fenland: past and present. Wisbech & London, 1878. xxxii, 649 p. illust. 8°. 1878.1

Sect. viii. The fishes (The present)

Miller, *Walter.* Scientific names of Latin and Greek derivation. Proc. Calif. Acad. Sci., 1897, 3. ser. **1**, 115–143. 1897.1

Millet, *C.* Essais de pisciculture. Fécondations naturelles et artificielles des œufs de poissons. L'Institut, 1854, **22**, 257–259. 1854.1

—— Observations sur la communication verbale de M. Coste. Bull. Soc. Acclim. Paris, 1854, **1**, 14–20. 1854.2

—— Réponse aux observations insérées par M. Coste. Bull. Soc. Acclim. Paris, 1854, **1**, 127–135. 1854.3

—— De l'hygiène et de l'alimentation des jeunes poissons. Bull. Soc. Acclim. Paris, 1855, **2**, 67–81. 11 figs. Also separate; Tours, 1855. 15 p. figs. 8°. 1855.1

—— Influence nuisible de la lumière sur les œufs de certaines espèces de poissons. L'Institut, 1855, **23**, 55. 1855.2

—— Rapport sur les fécondations artificielles des œufs de poissons et sur le transport des œufs fécondés. Bull. Soc. Acclim. Paris, 1855, **2**, 193–203. 1855.3

—— Pisciculture; considérations générales et pratiques sur la pisciculture marine. Paris, 1856. 8°. 1856.1

—— Pisciculture pratique appliquée à l'empoissonnement des cours d'eau. Bull. Soc. Acclim. Paris, 1856, **3**, 77–83. Also separate; Paris, 1856. 8°. 1856.2

—— Rapport sur les mesures à prendre pour assurer le repeuplement des cours d'eau de la France. Bull. Soc. Acclim. Paris, 1856, **3**, 223–234. Also separate; Batignolles, 1856. 8°. 1856.3

—— Questionnaire de pisciculture pratique. Bull. Soc. Acclim. Paris, 1857, **4**, 344–348. 1857.1

Millet, *C.*

—— Pisciculture. Notices sur les divers appareils destinés à la fécondation artificielle, à l'incubation et à l'élevage. Mém. Soc. Acad. Maine & Loire, 1858, **3**, 17–32. 1858.1

—— Conférences sur la pisciculture, au Jardin d'Acclimatation du Bois de Boulogne. Bull. Soc. Imp. Zool. Acclim., 1861, **8**, 569–571; 624–627. *Ibid.*, 1862, **9**, 68–69. 1861.1

—— Recherches sur l'influence de la température sur la circulation du sang de l'embryon de l'œuf des poissons. Bull. Soc. Acclim. Paris, 1864, 2. sér. **1**, 434. 1864.1

—— [Note sur les œufs de poissons fixés sur un cercle de barrique trouvé en mer] C. R. Acad. Sci. Paris, 1865, **60**, 342–343. 1865.1

—— [Œufs du poisson fileur] Bull. Soc. Acclim. Paris, 1865, 2. sér. **2**, 47–48. 1865.2

—— Rapport sur les mesures relatives à la conservation et à la police de la pêche. Bull. Soc. Acclim. Paris, 1865, 2. sér. **2**, 263–274. 1865.3

—— La culture de l'eau. Tours, 1870. 364 p. pls. & figs. 8°. 1870.1

—— Législation de la pêche fluviale. Bull. Soc. Acclim. Paris, 1872, 2. sér. **9**, 335–354. Also separate; Tours, 1872. 31 p. 8°. 1872.1

Milligan, *William,* & **Cameron,** *John.* *See* **Cameron** & **Milligan.**

Millon, *E.*, **Reiset,** *J.*, & **Regnault,** *V.* *See* **Regnault, Reiset** & **Millon.**

Mills, *T. Wesley.* On the cardiac rhythm of fishes and the action on the same of certain drugs and poisons. Johns Hopkins Univ. Circ., 1885, **5**, 8–9. 1885.1

—— The heart of the fish compared with that of Menobranchus, with special reference to reflex inhibition and independent cardiac rhythm. Journ. Physiol., London, 1886, **7**, 81–95. 1886.1

Miln, *W. Simpson.* The herring brand (In Fish and fisheries, edited by David Herbert, p. 236–245. Edinburgh & London, 1883. 8°) 1883.1

—— The Scotch east coast, Orkney and Shetland. Lewis and Barra herring fishing. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 11. 1883.2

Milne, *John Adam.* Pacific salmon; an attempt to evolve something of their history from an examination of their scales. Proc. Zool. Soc. London, 1913, 572–610. 24 figs. 1913.1

Milne-Edwards (*junior*), *Alphonse* [1835–1900] For biographical notice *see* Lévy, M., in Cosmos, 1900, **42**, 570–571. portr.

—— Note sur les dimensions des globules du sang chez quelques vertébrés à sang froid. Ann. Sci. Nat. (*Zool.*), 1856, 4. sér. **5**, 164–167. 1856.1

—— Reptiles, batraciens et poissons reçus par M. Bocourt à Siam. Paris, 1866. pl. 4°. 1866.1

—— Pêches norwègiennes; pêche du hareng; recherches récentes relatives aux voyages périodiques de ce poisson et à quelques autres points de son histoire. Bull. Hebd. Assoc. Sci. France 1878–79 (1878), **23**, 37–53. 1878.1

Milne-Edwards, *Alphonse,* & **Coste,** *Jean J. M. C. V.* Travaux et rapports de la commission de pisciculture, adressés au Ministre du commerce. Paris, 1850. 1850.1

Milne-Edwards, *Henri.* *See* **Edwards,** *Henri Milne.*

Milne-Home, *David,* of Milne-Graden [1805–1890] *See* **Home,** *David Milne.*

Milner, *James Wood* [1841–1879] For memorial notice *see* Phillips, B., in Trans. Amer. Fish-Cult. Assoc., 1880, 4–8.

—— Character of some of the northern tributaries of lake Michigan. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 632. 1874.1

—— New species of Argyrosomus and Coregonus. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 86–89. 1874.2

Argyrosomus hoyi and *A. nigripinnis* Gill; *Coregonus couesii*, sp. nov.

—— Notes on the grayling of North America [*Thymallus tricolor*] Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 729–742. — Amer. Sportsman, 1875, **5**, 310. 1874.3

—— The progress of fish-culture in the United States. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 523–558. pl. 1874.4

—— Report on the fisheries of the Great Lakes; the results of inquiries prosecuted in 1871 and 1872. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 1–78. 1874.5

—— Report on the propagation of the shad (*Alosa sapidissima*) and its introduction into new waters by the U. S. Fish Commissioner in 1873. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 419–451. 1874.6

—— Shad in fresh water, being a section of Prof. Baird's forthcoming report. Amer. Sportsman, 1874, **4**, 86. 1874.7

—— Experiments with a view to transporting shad in sea water. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 363–369. 1876.1

—— Nomenclature of the pike family. Forest & Stream, 1876, **7**, 163. 1876.2

Distinction between *Esox reticulatus*, *E. lucius* and *E. nobilior*.

—— Operations in the distribution of shad in 1874. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 323–326. 1876.3

—— Report of the Triana trip [relating to the fisheries of the Potomac and Patuxent rivers] Rept. U. S. Fish Comm. 1873–75 (1876), **3**, (Append. B. xviii), 351–362. 1876.4

—— Habits of the whitefish. Forest & Stream, 1877, **9**, 397. 1877.1

—— Invertebrates which prey upon fishes, reptiles and amphibia. Field & Forest, 1877, **2**, 4–6. 1877.2

—— Fish-hatching apparatus for Germany, with instructions for use. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 1008–1014. 1878.1

—— The propagation, and distribution of shad in 1877. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 901–909. *Ibid.* 1877 (1879), **5**, 847–852. 1878.2

—— The work of shad hatching on the headwaters of Chesapeake bay. Trans. Amer. Fisheries Soc. 1878 (1879), 87–89. 1879.1

—— How anadromous fishes may return to their birthplaces. Chicago Field, 1880, **13**, 205. 1880.1

—— How fish find their own rivers. Chicago Field, 1880, **14**, 220. 1880.2

—— The propagation and distribution of shad in 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 611–628. 1880.3

—— The shad and the alewife. Harper's Mag., 1880, **60**, 845. 1880.4

Milner, *James Wood*, **Haime,** *Jules*, & **Hessel,** *Rudolf*. History of fish-culture and papers relating to practical fish-culture. Washington, 1874. 21 pls. 8°. 1874.1

Milner, *James Wood*, & **Yarrow,** *Harry Crècy*. *See* **Yarrow** & **Milner.**

Milner, *W. R.* Description of a trough for exhibiting the circulation of the blood in a fish's tail. Quart. Journ. Micr. Sci., 1859, **7**, 113–114. 1859.1

[**Milnor** (*junior*), *William*] Schuylkill fishing company, Philadelphia, Penn. An authentic historical memoir of the company, from its establishment in 1732 to the present time. By a member [William Milnor, jr.] Philadelphia, 1830. illust. 8°. 1830.1

"Dr. Bethune says of this quaint and scarce book that 'it is an amusing account of a very ancient fishing club founded by a few of the original settlers in Pennsylvania. In the catalogue are names of very high distinction, and the association still exists.' It is the most ancient fishing club that exists." — *Westwood and Satchell*, Bibliotheca Piscatoria, 1883.

—— Schuylkill fishing company, Philadelphia, Penn. A history of the Schuylkill fishing company of the State in Schuylkill, 1732–1888 [With an appendix containing "Memoirs of the Gloucester fox hunting club"] Philadelphia, 1889. illust. 8°. 1889.1

"A reprint of Wm. Milnor, jr.'s, history, published in 1830, with a continuation of the same to 1888, to which is added a list of members from its formation to the present time." — *Preface.*

Milone, *Ugo*. Composizione, valore nutritivo, assimabilità della carne muscolare dei pesci. Boll. Soc. Nat. Napoli, 1897, **10**. 1897.1

Milrath, *Hugo*. Zur Geschichte des Heringstranes. Lotos, Prag, 1909, **57**, 215–217. 1909.1

Milroy, *T. H.* The physical and chemical changes taking place in the ova of certain marine teleosteans during maturation. 16. Ann. Rept. Fishery Board Scotland, 1898, pt. 3, 135–152. 1898.1

—— The food value of the herring. 24. Ann. Rept. Fishery Board Scotland, 1906, pt. 3, 83–107. *Ibid.*, 25. Ann. Rept., 1907, 197. 1906.1

—— Changes in the chemical composition of the herring during the re-

Milroy, *T. H.* productive period. Biochem. Journn., 1908, **3**, 366–390. Abstracts in Zentralbl. Physiol., **21**, 476. — München Med. Wochenschr., 54. Jahrg., 2156. 1908.1

Minakata, *Kumagusu.* An alga growing on fish. Nature, 1908, **79**, 99. 1908.1

Minchin, *Edward A.* [Exhibition of drawings of trypanosomes and trypanoplasms of some freshwater fishes] Proc. Zool. Soc. London, 1898, 785. 1898.1

—— Observations on the flagellates parasitic in the blood of freshwater fishes. Proc. Zool. Soc. London, 1909, 2–30. 5 pls. 1909.1

Minchin, *Edward A.*, & **Woodcock,** *H. M.* Observations on certain blood-parasites of fishes occurring at Rovigno. Quart. Journ. Micr. Sci., London, 1910, 113–154. 1910.1

Minckert, *W.* Zur Topographie und Entwickelungsgeschichte der Lorenzini'schen Ampullen. Anat. Anz., 1901, **19**, 497–527. 10 figs. 1901.1

Minding, *Julius.* Lehrbuch der Naturgeschichte der Fische. Berlin, 1832. 8°. 1832.1

Miner, *Roy Waldo* [1875—] A plan for an educational exhibit of fishes. Proc. 4. Intern. Fish. Congr. Washington, Bull. Bureau Fisheries 1908 (1910), pt. 2, 1315–1340. 16 pls. 1910.1

—— The study of marine ecology and its importance to the fisheries. Trans. Amer. Fisheries Soc. 1910 (1911), 40. ann. meet., 207–217. 1910.2

Minervini, *R.* Des capsules surrénales. Développement, structure, fonctions. Journ. Anat. Physiol., Paris, 1904, **40**, 449–492; 634–667. 4 pls. 1904.1

Sharks and teleosts.

—— Ueber Neubildung von Blutgefässen. Arch. Anat. Physiol. (Virchow), 1911, **204**. 1911.1

Teleostier, Knorpelfische und Cyclostomen.

Mines, *G. R.* On the relations to electrolytes of the hearts of different species of animals. I. Elasmobranchs and Pecten. Journ. Mar. Biol. Assoc., 1907–10, n. s. **8**, 44. 1907.1

—— The relation of the heart-beat to electrolytes and its bearing on comparative physiology. Journ. Mar. Biol. Assoc., 1911, n. s. **9**, no. 2, 171–190. 1911.1

Experiments with *Raja blanda*, *R. clavata*, *Scyllium canicula* and *Rhina squatina*.

—— Note on the influence of activity on automatic rhythm in heart muscle. Journ. Physiol. London, 1913, **47**, xiii. 1913.1

Vertebrate heart beats slower after forced activity, Octopus heart faster. To be explained by formation of acid in one case in excess of, in the other in direction of optimum.

—— Note on the respiratory movements of *Torpedo ocellata*. Proc. Phil. Soc. Cambridge, 1913, **17**, 170–174. 2 pls. 1913.2

—— On dynamic equilibrium in the heart. Journ. Physiol., 1913, **46**, 349–383. 1913.3

Torpedo ocellata.

Minkevich, *Romual'd Kasimirovich.* Recherches sur la formation des habitudes, le sens des couleurs et la mémoire chez les poissons. Ann. Instit. Océanogr. Monaco, 1912, **5**, 53. 1912.1

Minot, *Charles Sedgwick* [1852–1914] The concrescence theory of the vertebrate embryo. Amer. Naturalist, 1890, **24**, 501–516; 702–719. 5 figs. 1890.1

—— The mesoderm and the cœlom of vertebrates. Amer. Naturalist, 1890, **24**, 877–898. 5 figs. 1890.2

Sharks and teleosts.

—— Cephalic homologies. A contribution to the determination of the ancestry of vertebrates. Amer. Naturalist, 1897, **31**, 928–943. 1897.1

Homologies of Amphioxus.

—— On the morphology of the pineal region, based upon its development in Acanthias. Amer. Journ. Anat., 1901, **1**, 81–98. 14 figs. 1901.1

—— Sollen die Bezeichnungen "Somatopleura" und "Splanchnopleura" in ihrem ursprünglichen richtigen, oder in dem in Deutschland gebräuchlich gewordenen Sinne verwendet werden? Anat. Anz., 1901, **19**, 203–205. 1901.2

—— A tribute to Joseph Leidy. Science, 1913, n. s. **37**, 809–814. 1913.1

Mir, *Eugène.* Lettre sur la température maxima et l'eau des bassins destinés à l'élevage des salmonides. Bull. Piscicult. Toulouse, 1908, 3–5. 1908.1

Miranda, *Dominico da,* & **Puci,** *Giacomo Mario.* Esperimenti istituiti sul ginnoto elettrico. Napoli, 1845. 18 p. 4°. 1845.1

—— Expériences sur le gymnote électrique. Arch. Electr., 1845, **5**, 496–505. — Electr. Mag., 1846, **2**, 279–286. 1845.2

Miranda Ribeiro, *Alipio de. See* **Ribeiro,** *Alipio de Miranda.*

Mironesco, *Théodore,* & **Fauré-Fremiet,** *E. See* **Fauré-Fremiet** & **Mironesco.**

Mirto, *Dominico.* Sulla fina anatomia del tetto ottico dei pesci Teleostei e sull' origine reale del nervo ottico. Riv. Sperim. Frenatria Medic. Legale, 1895, **21**, fasc. 1. 1895.1

—— La terminazione centrale del nervo ottico nei Teleostei. In risposta a la nota da R. Fusari. Riv. Patol. Nerv. Ment., 1896, **1**, 394–396. 1896.1

Missuna, *Anna.* Ueber eine neue Edestus-Art aus den Karbon-Ablagerungen der Umgebungen von Kolomna. Bull. Soc. Nat. Moscou, 1907, 529–535. 4 figs. — Kosmos, 1908, **33**, 604–624. 1907.1

Describes *Edestus karpinskii,* sp. nov.

Misuri, *A.* Alcune considerazioni relative alla tutela delle specie ittiologiche del lago Trasimano. Monit. Zool. Ital., 1915, anno 26, 143–145. 1915.1

Mitchell, *Donald G.* [**Ike Marvel,** *pseudon.*] Wet days at Edgewood; with old farmers, old gardeners, etc. London, 1865. 1865.1

“ Amongst the old farmers discussed we may cite, as connected with fishing, Crescenzi and Conrad Heresbach, the authors of the ‘ Maison Rustique,’ and Sir Hugh Platt, and Gervase Markham.”

For references to the works of Crescenzi and the authors of “La maison rustique” (Charles Estienne and John Liebault) *see* under these names in the section of this Bibliography devoted to pre-Linnæan authors.

Mitchell, *E. G.* Oral breathing valves of teleosts, their modification and relations to the shape of the mouth. Amer. Naturalist, 1904, **38**, 153–164; 405. 9 figs. 1904.1

Mitchell, *G. L.* Note on the aberrant follicles in the ovary of Cymatogaster. Proc. Indiana Acad. Sci., 1899, 229–232. pl. 1899.1

Mitchell, *Hugh.* On the restoration of Pteraspis. Geologist, 1862, **5**, 404–406. 3 figs. *Ibid.*, 1863, **6**, 31. *Ibid.*, 1864, **7**, 117–118. figs. 1862.1

—— Holoptychius and Glyptolepis. Geologist, 1863, **6**, 211–212. 1863.1

—— On the occurrence of Glyptolepis [*Holoptychius flemingi*] in the sandstone of Dura Den. Geologist, 1863, **6**, 43–44. 1863.2

—— On the occurrence of Acanthodes in Palæozoic rocks. Geologist, 1864, **7**, 130–132. 1864.1

—— Note on specimens of fish from the lower Old Red Sandstone of Forfarshire. Rept. Brit. Assoc. Adv. Sci., 55. meet., 1885, 1023. 1885.1

Mitchell, *J. C.* Report on the edible fishes of lake Menzaleh, their capture and preservation, presented to H. E. Yacoub Artin Pasha, Under Secretary of State of the Ministry of public instruction. Cairo, 1895. 50 p. 4 pls. 8°. 1895.1

—— Egyptian fisheries. Natural Sci., 1898, **12**, 190–193. 1898.1

Mitchell, *J. C.,* & **Ewart,** *James Cossar. See* **Ewart** & **Mitchell.**

Mitchell, *James.* Notice in regard to the jaculator fish of Java, or *Chætodon rostratum* Linn. Edinburgh New Phil. Journ., 1828, **5**, 162–164. Notizen (Froriep), **21**, 225–226. Isis (Oken), 703–704. 1828.1

Mitchell, *Jesse.* On the climbing habits of *Anabas scandens.* Ann. Mag. Nat. Hist., 1864, 3. ser. **13**, 117–119. 1864.1

Mitchell, *John M.* On the natural history and modes of fishing and curing the herring. Journ. Highland Soc., [n. d.] **10**, 1. (?)1860.1

—— On the migration of the herring. Rept. Brit. Assoc. Adv. Sci., 31. meet., 1861, 149–151. 1861.1

—— On the natural history of the herring. Proc. Roy. Soc. Edinburgh 1859–62 (1863), **4**, 171–172. 1863.1

—— Some statements in Cuvier's “Natural history of fishes,” as to the herring, shown to be erroneous. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 269–270. 1863.2

—— Sprats [*Clupea sprattus*] with developed milt and roe. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 290. 1863.3

Mitchell, *J. M.*

—— The herring; its natural history and national importance. Edinburgh & London, 1864. xii, 372 p. illust. 8°. 1864.1

Review in Athenæum, 1864, 222.

Mitchell, *Peter Chalmers.* Vertebrata (In Encycl. Britann., 11. ed. 1911, vol. xxvii, 1047–1051) 1911.1

With bibliography.

Mitchell, *Robert W. S.* A nest of young fish. Nature, 1875, **11**, 48. 1875.1

—— The place of fish in a hard-working diet, with notes on the use of fish in former times. Intern. Fisheries Exhib. Lit., London, 1883. Handbooks, **1**, pt. 5. 1883.1

—— Do flying-fish fly or not? Nature, 1885, **31**, 53. 1885.1

Mitchell, *Silas Weir* [1829–1914] For biography, *see* Tucker, B. R. S. Weir Mitchell. Boston, 1914.

—— Observations on the blood crystals of the sturgeon. Proc. Acad. Nat. Sci. Philad., 1858, 2–4. 1858.1

—— Notes upon the effect of alcohol, glycerine, water, gum, ammonia and the vacuum upon the exposed hearts of frogs, snapping-turtles and sturgeons. Amer. Journ. Med. Sci., 1859, **37**, 343–348. 1859.1

—— Peculiarities of the circulatory apparatus of the gar-pike. Proc. Acad. Nat. Sci. Philad. 1859 (1860), 5. 1860.1

Mitchill, *Samuel Latham* [1764–1831] Memoir on some peculiarities in the anatomy and physiology of the shark, particularly respecting the production of its young. Philos. Mag. (Tilloch), 1803, **15**, 264–268. fig. Abstract in Med. Repository, 2. hexade, **2**, 78–81. fig. 1803.1

—— Cod-fishery of the United States. Med. Repository, 1805, 2. hexade, **2**, 87. 1805.1

—— The thresher, or long-tailed shark. Med. Repository, 1805, 2. hexade, **2**, 77–78. fig. 1805.2

—— Arrangement and description of the codfishes of New York. Amer. Med. Philos. Register, 1813, **4**, 618–627. 1813.1

—— Report in part of Samuel L. Mitchill, M.D., on the fishes of New-York. New York, 1814. 28 p. 12°. 1814.1

The contents of this work are thus indicated in the title-page.

i. Apodal. Eel, silver-fish.
ii. Jugular. Cod, blenny, Stomodon.
iii. Thoracic. Flounder, sea-basse, mackerel, gurnard, dolphin.
iv. Abdominal. Salmon, pike, Elops, silverside, mullet, flying-fish, Polynemus, herring, carp, perch, black-fish, begal, striped basse, weak-fish.
v. Chondropterygious. Sturgeon, shark, ray, lamprey.
vi. Branchiostegious. Toad-fish, sun-fish, sea-horse, fishing-frog.

The new genera are four, Stomodon [=Merlucius Raf.], Morone, Tautoga and Roccus.

This little work is one of the rarest of American contributions to ichthyology. In it 68 nominal species are enumerated, of which 38 are described or designated as new. The opuscule was reprinted, with an introduction and concordance of species, by Dr. T. N. Gill, in 1898.

—— The fishes of New York, described and arranged. Trans. Lit. Phil. Soc. New York, 1814, **1**, 355–492. 6 pls. 1814.2

In the introductory remarks, 147 species (and in addition, 19 varieties) are summed up. These are arranged according to Shaw's modification of the Linnæan system. 60 of the species are illustrated in 6 steel-plates.

The preceding work appears to have been translated into French by F. J. Meisser, a physician of Brussels, it being apparently the work referred to under the title: "Mémoire sur l'ichthyologie de l'Amérique Septentrionale, par Mitchill, traduction de l'anglais," in Vandermaelen's Dictionnaire des hommes des lettres, des savans et des artistes de la Belgique (1837), p. 29.

—— On the fishes of New York. Notice in Trans. Linn. Soc. London, 1815, **11**, pt. 2, 424. 1815.1

—— Memoir on ichthyology. The fishes of New York described and arranged. In a supplement to the memoir on the same subject, printed in the New York Literary and Philosophical Transactions, 1815, vol. i, p. 355–492. Amer. Month. Mag. Crit. Rev., New York, 1817–18, **2**, 241–248; 321–328. 1817.1

In this supplement 42 nominal species are added, of which 31 are given as marine and 11 as freshwater; but two of the latter ("the freshwater eel," and "long-jawed fresh-water pike," or Belone) are really rather salt- or brackish-water species.

—— Description of three species of fish [*Anguilla oceanica, Gadus albidus, Salmo amethystus*] Journ. Acad. Nat. Sci. Philad., 1818, n. s. **1**, 407–412. 1818.1

—— Description of a new and gigantic species of the genus Cephalopterus of Duméril. Ann. Lyceum Nat. Hist. New York, 1824, **1**, 23–29. Abstract in Bull. Sci. Nat. (Férussac), **1**, 189. — Isis (Oken), **10**, 1063. fig. 1824.1

—— Description of an extraordinary fish, resembling the Stylephorus of Shaw [Saccopharynx] Ann. Lyceum Nat. Hist. New York, 1824, **1**, pt. 1, 82–86. 1824.2

—— Description of the *Raia erinacea*, or hedgehog ray. Journ. Acad. Nat. Sci. Philad., 1825, **9**, 290. 1825.1

—— The hedgehog-ray — a species of fish taken occasionally near New York, in the Atlantic ocean, and now for the first time described. Amer. Journ. Sci., 1825, **9**, 290–293. — Ann. Philos. (Thomson), 1826, **11**, 112–114. 1825.2

—— Saccopharynx, novum genus piscium. Bull. Sci. Nat. (Férussac), 1825, **6**, 416. 1825.3

—— Description of a new species of dory [*Zeus crinitus*] from Block island. Amer. Journ. Sci., 1826, **11**, 144–146. — Isis (Oken), 1832, 1050–1051. 1826.1

—— Description of an apparently new species of Diodon [*D. carinatus*] Ann. Lyceum Nat. Hist. New York, 1828, **2**, 264–265. fig. — Bull. Sci. Nat. (Férussac), **15**, 167. — Isis (Oken), **10**, 1088. fig. 1828.1

—— Ueber Stylephorus Shaw. Isis (Oken), 1832, 1068. 1832.1

—— Report in part of Samuel L. Mitchill, M.D., Professor of Natural History, etc., on the fishes of New York. Edited by Theodore Gill, M.A., M.D., etc. [Privately printed] Washington, D. C., 1898. 30 p. 8°. 1898.1

Mitchill, *Samuel Latham,* **Hildreth,** *S. P.,* & **Clemens,** *James W.* Notice of the spoonbill sturgeon, or paddle-fish of the Ohio (*Polyodon feuille* of Lacépède) Amer. Journ. Sci., 1822, **12**, 201–205. pl. 1822.1

Mitchill, *Samuel Latham,* & **Willey,** *Aaron. Zeus crinitus,* n. sp. Bull. Sci. Nat. (Férussac), 1828, **13**, 362. 1828.1

Mitre, *Bartoloméo.* Notas bibliográficas y biográficas (In Schmidel, Ulrich. Viaje al río de la Plata (1534–1554) Buenos Aires, 1903. 499 p. illus. & maps. 8°) 1903.1

Mitrofanov, *Pavel Il'ich* [= *Paul*] [1857 —] Ueber die erste Anlage der Seitenorgane. Warsaw, 1889. 18 p. 1889.1

—— Ueber die erste Anlage des Gehörorgane bei niedern Wirbelthieren. Centralbl. Biol., 1890, **10**, 190–191. 1890.1

—— Development of cranial nerves and ganglia in elasmobranchs [Text in Russian] Warsaw, 1892. 251 p. pl. 1892.1

—— Note sur la signification métamerique des nerfs crâniens. Congr. Intern. Zool. Moscow, 1892, 1–8. 1892.2

—— Researches on the development of vertebrate animals [Text in Russian] Trav. Soc. Nat. Varsovie, 1892, **2**, 1–251. 7 pls. 1892.3

—— Etude embryogénique sur les sélaciens. Arch. Zool. Expér. Gén., 1893, 3. sér. **1**, 161–220. 6 pls. 1893.1

—— Contributions à la division cellulaire indirecte chez les sélaciens. Intern. Journ. Anat. Physiol., 1894, **40**, 333–359. pl. 1894.1

Mitropolskiĭ, *S.* Kurzer Bericht über die Thätigkeit des ichthyologischen Laboratoriums in Astrachan während der Jahre 1906 und 1907 [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1907, **22**, 559–569. 1907.1

—— Ueber den Zug und das Laichen der Häringe im Wolgadelta im Frühjahr 1909 [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1909, **24**, 596–598. 1909.1

Mitsukuri, *Kakichi* [1858–1909] For memorial notice, *see* Dean, Bashford, in Pop. Sci. Monthly, 1909, **75**, 614–616.

—— Marine biological station of the Imperial University at Misaki. Journ. College Sci. Tokyo, 1887, **1**, pt. 4, 381–384. 1887.1

See also **Dean,** *B.* A visit to the Japanese zoological station at Misaki. Pop. Sci. Monthly, 1904, **65**, 195–204.

—— On a new species of the chimæroid group Hariotta. Zool. Mag. Tokyo, 1895, **7**, 97–98. pl. 1895.1

—— The cultivation of marine and freshwater animals in Japan. Pop. Sci. Monthly, 1905, **67**, 382–384. 2 illust. — Bull. Bureau Fisheries, **24**, 257–289. 11 pls. & figs. 1905.1

Mittenheimer, *C.* De membro piscium pectorale. Berolini, 1847. 1847.1

Mivart, *St. George Jackson* [1827–1900] On the vertebrate skeleton. Trans. Linn. Soc. London (*Zool.*), 1871, **27**, 369–392. pl. 1871.1

—— The fins of elasmobranchs, with considerations on the nature and homo-

Mivart, *St. G. J.* logies of vertebrate limbs. Sci. Gossip, 1878, **14**, 89. 1878.1

—— Notes on the fins of elasmobranchs, with considerations on the nature and homologues of vertebrate limbs. Trans. Zool. Soc. London, 1879, **10**, 439–484. 6 pls. & 6 figs. Abstract in Proc. Zool. Soc. London, 1878, 116–120. 1879.1

Miyake, *K.*, & **Tadokoro,** *T.* Ueber die chemische Beschaffenheit der Eischale von *Pollachius brandti*. Journ. Coll. Agric. Tokyo, 1911, **4**, pt. 6, 269–277. 1911.1

Moberg, *Adolf* [1813–1895] Naturalhistoriska daganteckningar gjorda i Finland åren 1750–1845. Notis. Sällsk. Fauna Flora Fenn. Förh., 1857, **3**, 95–250. 1857.1

—— Klimatologiska iakttagelser i Finland, föranstaltade och utgifna af Finska Vetenskaps-Societeten. Första delen. Ar 1846–1855. I. Naturalhistoriska anteckningar, ordnade och sammanställda. Bidrag Finl. Naturkänn., 1860, **7**, i–xviii, 1–361. 1860.1

—— Klimatologiska iakttagelser i Finland föranstaltade och utgifna af Finska Vetenskaps-Societeten. Andra delen. Ar 1856–1875. I. Fenologiska anteckningar. Bidrag Känn. Finl. Natur & Folk, 1885, **41**, i–xi; 1–318. 1885.1

—— Fenologiska iakttagelser i Finland åren 1750–1846, sammanstälda och ordnade. Bidrag Känn. Finl. Natur & Folk, 1894, **55**, 1–165. 1894.1

Moch, *W.* Einer aus der Rumpelkammer. Plauderei über den Goldfisch (*Carassius auratus*) Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 60–61. 2 figs. 1910.1

Mocquard, *F.* Quelques essais de pisciculture en eau douce. Bull. Soc. Centr. Aquicult. Pêche, 1902, **14**, 1–19. 1902.1

—— Sur l'incubation des œufs de poisson en eau libre. Bull. Soc. Centr. Aquicult. Pêche, 1905, **17**, 1–11. 1905.1

—— L'*Amblyopsis spelæus* De Kay, poisson aveugle des cavernes des Etats-Unis. Naturaliste, Paris, 1908, **30**, 91–93. 1908.1

—— Cas de reproduction de la truite arc-en-ciel et de la truite commune dans la rivière le Salon. Bull. Soc. Aquicult. Pêche, 1911, **23**, 81–86. 1911.1

Mocsáry, *S.* The fishes of the Schnellen-Körös and of the river Pecze [Text in Hungarian] Nagyvárad, 1874, no. 38–39. 1874.1

Modoerin, *A.* Bemerkungen eines Fischers über den Fischstand unserer schweizerischen Gewässer. Zürich, 1885. 1885.1

Möbius, *Karl August* [1825–1908] For biographical notice, *see* Dahl, F., in Zool. Jahrb. Suppl., 1905, **8**, Festschr. Möbius, 1–22.

—— Das Verhalten einiger Fische bei Nacht. Zool. Garten, 1867, **8**, 148–150. 1867.1

—— Mittheilung vom 28. März 1871 [betreffend die künstliche Fischzucht] Circul. Deutsch. Fischerei Ver., 1871, no. 3, 34–35. 1871.1

—— Wo kommt die Nahrung für die Tiefseethiere her? Zeitschr. Wiss. Zool., 1871, **21**, 294–304. — Ann. Mag. Nat. Hist., 4. ser. **8**, 193–203. 1871.2

—— Die faunistischen Untersuchungen in der Ostsee im Jahre 1871, auf der Expedition S. M. S. "Pommerania." Zool. Garten, 1872, **13**, 276–280. 1872.1

—— Die Fische, welche während der Pommeraniafahrt in der Ostsee gefangen wurden. Jahresber. Komm. Wiss. Unters. Deutsch. Meere, Kiel 1871 (1873), 1. Jahrg., 145–147. 1873.1

—— Ueber die Nahrung der Häringe im Kieler Hafen. Schrift. Naturw. Ver. Schleswig-Holstein, 1873, **1**, Heft 1, 32–33. 1873.2

—— Die Bewegungen der Tiere und ihr psychischer Horizont. Schrift. Nat. Ver. Schleswig-Holstein, 1875, **1**, 111–130. 1875.1

—— Nahrung der Nordseefische. Zool. Garten, 1875, **16**, 468–469. 1875.2

—— Wie sich der Heringsfang zur Heringsnahrung verhält. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 7, 263–270. 1875.3

—— Fische von Mauritius. Schrift. Nat. Ver. Schleswig-Holstein, 1877, **2**, Heft 2, 113–117. 1877.1

—— Die Bewegungen der fliegenden Fische durch die Luft. Zeitschr. Wiss. Zool., 1878, **30** (*Suppl.*), 343–382. — Natur, 1878, n. s. **4**, 389–392. 1878.1

—— Die Bewegungen der fliegenden Fische durch die Luft, nach eigenen und fremden Beobachtungen beschrieben und erklärt. Leipzig, 1878. pl. & fig. 8°. 1878.2

—— Nourishment of the herrings caught in the North and East seas. Chicago Field, 1878, **10**, 165. 1878.3

—— Untersuchungen über die Nahrung der Heringe im Jahre 1875–76. Jahresber. Komm. Wiss. Unters. Deutsch. Meere, Kiel, 1878, 4–6. Jahrg., 173–174. 1878.4

—— Beiträge zur Meeresfauna der Insel Mauritius und der Seychellen. Berlin, 1880. 1880.1

—— Die Nahrung der Seethiere. Zool. Garten, 1881, **22**, 208–212. 1881.1

—— The food of marine animals. Rept. U. S. Fish Comm. 1879 (1882), **7**, 485–489. 1882.1

—— Scientific investigations upon the fishes profitable to the fisheries. From investigations of the commission for the scientific examination of the German seas. Rept. U. S. Fish Comm. 1879 (1882), **7**, 534–548. 15 figs. 1882.2

—— Can we do anything to decrease, preserve or increase the number of our useful marine animals? Bull. U. S. Fish Comm. 1883, **3**, 393–400. 1883.1

—— Das Nest des Seestichlings. Schrift. Naturw. Ver. Schleswig-Holstein, 1885, **6**, 56. — Ann. Mag. Nat. Hist., 5. ser. **16**, 153. 1885.1

—— Ueber die Eigenschaften und den Ursprung der Schleimfäden des Seestichlingsnest. Arch. Mikr. Anat., 1886, **25**, 554–563. pl. — Biol. Centralbl., 5, 647–648. 1886.1

—— Bericht über Untersuchungen des Zustandes der Geschlechtsdrüsen weiblicher und männlicher Aale. 5. Ber. Komm. Wiss. Unters. Deutsch. Meere, Kiel, 1887, 129–134. 1887.1

—— *Balistes aculeatus*, ein trommelnder Fisch. Sitzber. Akad. Wiss. Berlin, 1889, 999–1006. pl. 1889.1

—— Ueber einen Eishai (*Læmargus microcephalus*) Sitzber. Ges. Naturf. Freunde Berlin, 1890, 11. 1890.1

—— Ein eierhaltiges Nest des Seestichlings, *Gasterosteus spinachia* L. Sitzber. Ges. Naturf. Freunde Berlin, 1893, 167. 1893.1

—— Ueber Eiernester pelagischer Fische aus dem mittelatlantischen Ocean. Sitzber. Akad. Wiss. Berlin, 1894, 1203–1210. figs. 1894.1

Möbius, *Karl August,* & **Heincke,** *Friedrich.* Pisces. Zoologische Ergebnisse der Nordseefahrt 1872. Jahresber. Komm. Wiss. Unters. Deutsch. Meere, Kiel, 1875, 2. & 3. Jahrg., 311–315. 1875.1

—— Die Fische der Ostsee. Jahresber. Komm. Wiss. Unters. Deutsch. Meere, Kiel, 7. & 9. Jahrg., 1883, 2. Abth., 197–296; 315. 1883.1

The vernacular names of many species of fish are given in German, Danish and Swedish.

Möbius, *Karl,* & **Meyer,** *H. A.* *See* **Meyer** & **Möbius.**

Möbius, *Karl August,* & **Peters,** *W.* Liste des poissons collectionnés à Maurice et aux Seychelles. Trans. Roy. Soc. Sci. Mauritius, 1883, **11**, 49–58. 1883.1

Möllendorff, *O. F. von.* List of fresh-water fishes of the province of Chihli, with their Chinese names. Journ. North-China Branch Roy. Asiatic Soc., Shanghai, 1877, n. s. **11**, 105–111. 1877.1

Moenkhaus, *William J.* [1871 —] Variation in the color-pattern of *Etheostoma caprodes.* Abstract in Proc. Indiana Acad. Sci., 1893, 231–232. 1893.1

—— Variation of North American fishes. I. The variation of *Etheostoma caprodes* Rafinesque. Amer. Naturalist, 1894, **28**, 641–660. 3 pls. 1894.1

—— Notes on a collection of fishes of Dubois county, Indiana. Proc. Indiana Acad. Sci., 1895, 159–162. 1895.1

—— Some cases of mimicry in fishes. Proc. Indiana Acad. Sci. 1894 (1895), 86. 1895.2

—— Variation of North American fishes. II. The variation of *Etheostoma caprodes* Rafinesque, in Turkey lake and Tippecanoe lake. Proc. Indiana Acad. Sci., 1895, 278–296. 9 figs. 1895.3

—— Material for the study of the variation of *Etheostoma caprodes* Raf. and *Etheostoma nigrum* Raf. in Turkey lake and Tippecanoe lake. Proc. Indiana Acad. Sci. 1897 (1898), 207–228. 6 figs. 1898.1

—— An aberrant Etheostoma. Proc. Indiana Acad. Sci. 1901 (1902), 115–116. 1902.1

Moenkhaus, *W. J.*

—— Experiments in the hybridization of fishes. Proc. Indiana Acad. Sci. 1901 (1902), 114. 1902.2

—— Description of a new species of darter from Tippecanoe lake. Bull. Indiana Univ., 1903, **1**, 18–21. — Proc. Indiana Acad. Sci. 1902 (1903), 112–115. — Bull. U. S. Fish Comm. 1902 (1904), **22**, 397–398. fig. 1903.1

—— The individuality of the maternal and paternal chromosomes in the hybrid between *Fundulus heteroclitus* and *Menidia notata.* Bull. Indiana Univ., 1903, **1**, 17. Abstract in Proc. Indiana Acad. Sci. 1902 (1903), 111.—Science, 1903, n. s. **17**, 487–488. 1903.2

—— The development of the hybrids between *Fundulus heteroclitus* and *Menidia notata,* with especial reference to the behaviour of the maternal and paternal chromatin. Amer. Journ. Anat., 1904, **3**, 29–64. 4 pls. & 33 figs. 1904.1

—— Cross-fertilization among fishes. Proc. Indiana Acad. Sci. 1910 (1911), 353–393. 1911.1

Mörbe, *Johannes.* Die vollständige Angelfischerei in ihrer praktischen und allseitigen Anwendung für jeden Angler, u. s. w. Berlin, 1902. 148 p. 8°. 1902.1

Mörch, *O. A. L.,* **Reinhardt,** *J. T.,* **Schiödte,** *J. C.,* **Lütken,** *C. F.,* **Lange,** *J.,* & **Rink,** *H.* *See* **Reinhardt, Schiödte** & others.

Möricke, *W.* Versteinerungen der Tertiärformation von Chile (In Beiträge zur Geologie und Paläontologie von Südamerika, herausgegeben von G. Steinmann) Neues Jahrb. Mineral., 1895, Beilage-Bd. **10**, 548–612. pls. 1895.1

Notice of teeth of Carcharodon, p. 592.

Mörikofer, *J. C.* Der Fischfang im Bodensee. Illust. Kalend. Schweiz, 1853, 3. Jahrg., 148–158. Also separate; St. Gallen, 1853. 10 p. 8°. 1853.1

—— Die Rechtsverhältnisse von Gottlieben in Beziehung auf den Fischfang. Frauenfeld, 1861. 23 p. 8°. 1861.1

Mörner, *Carl Thore.* Die organische Grundsubstanz der Fischschuppen vom chemischen Gesichtspunkte aus betrachtet. Zeitschr. Physiol. Chem., Strasburg, 1898, **24**, 125–137. 1898.1

—— En iakttagelse angående abborrens rom. Fiskeritidskr. Finl., 1899, **8**, 214–215. 1899.1

—— Eine Beobachtung betreffs des Ichthylepidins. Zeitschr. Physiol. Chem., 1902, **37**, 88–89. 1902.1

—— Percaglobulin, ein charakteristischer Eiweisskörper aus dem Ovarium des Barsches. Zeitschr. Physiol. Chem., 1904, **40**, 429–464. 1904.1

Mohr, *E.* Ueber Verheilung von Verletzung an der Schuppe einer Corvina. Zool. Anz., 1914, **45**, 62–64. 2 figs. 1914.1

Mohr, *Nicolai* [1742–1790] De methodo Færoensium, Scotorum et Hollandorum circà piscaturam Gadi virentis. Scripta Societ. Scient. Island., 1782, **2**. 1782.1

—— Førsog til en Islandsk naturhistorie, med adskillige oekonomiske samt andre anmaetkninger, etc. Kjøbenhavn, 1786. xvi, 413 p. 7 pls. 8°. 1786.1

Contains descriptions of fishes.

Mojo, *M.* Ichtiološke bilješke. Rad Jugoslav. Akad. Znanosti, Zagreb, 1896, **126**, 83–109. figs. 1896.1

Mojsisovics von Mojsvar, *August* [1857–1897] Leitfaden bei zoologisch-zootomischen Präparirübungen. Leipzig, 1879. viii, 232 p. illust. 8°. 1879.1

A second edition, with 127 illustrations, was published at Leipzig, 1885.

—— Zur fauna von Béllye und Dárda. Mitth. Naturw. Ver. Steiermark, 1884, 2. Teil. 1884.1

Fische, p. 167–170.

—— Das Thierleben des oesterreichungarischen Tiefebenen. Wien, 1887. 8 pls. 8°. 1887.1

—— Zoologische Litteratur der Steiermark, 1887–1888. Bericht über die Thätigkeit des permanenten Comités zur naturwissenschaftlichen Erforschung der Steiermark im Jahre 1888. Graz, 1889. 19 p. 8°. 1889.1

—— Ueber eine auffällige (neue) Varietät des *Acipenser ruthenus* L. Sitzber. Akad. Wiss. Wien, 1892, **101**, 328–330. pl. 1892.1

Mokày, *Theodor.* Fischegel und Trypanosomen. Allgem. Fischerei Zeitg., 1904, **29**, 166–168; 244–245. 1904.1

Mola, *Pasquale.* Su di un cestode [*Prosobothrium armigerum*] del *Carcharodon rondeletii* M. Hle. Arch. Zool., Napoli, 1903, **1,** 344–366. 2 pls. 1903.1

Molhuijsen, *P. C.* De visscherij in de Zuiderzee. Bijdragen Vaderl. Geschied. Nieuwe Reeks (Nijhoff), 1864, **3,** 307–319. 1864.1

Molin, *Raffaele.* Sulla callosità faringea dei cyprini. Sitzber. Akad. Wiss. Wien (math.-nat. Cl.) 1850, **5,** 436–440. Also separate; Wien, 1851. 8°. 1850.1

—— Sulle tonache muscolari del tubo intestinale del pesce denominato *Tinca chrisitis.* Sitzber. Akad. Wiss. Wien (math.-nat. Cl.) 1850, **5,** 416–425. 1850.2

—— *Acipenser vallisnierii,* n. sp. Rivist. Period, Padova, 1851–53, **1,** 366–371. 1851.1

—— Sullo scheletro dell' *Acipenser ruthenus.* Sitzber. Akad. Wiss. Wien, 1851, **7,** 357–378. pl. — Atti R. Istit. Veneto Sci. Venezia, **2,** 196–198. 1851.2

See also **Nardo,** *G. D.*, 1852.1 *infra.*

—— Una nuova specia di Squalus. Rivist. Period., Padova, 1851–53, **1,** 381–389. 1851.3

—— Osservazioni sull' *Acipenser ruthenus* e sulla glandola delle appendici maschili dei Plagiostomi. Atti R. Istit. Venet. Sci., 1853, 2. ser. **4.** 1853.1

—— Osservazioni sull' anatomia degli scheletri dei Plagiostomi. Atti R. Istit. Venet. Sci., 1853, 2. ser. **4** & **5.** 1853.2

—— Sull' organo della respirazione del muggine. Atti R. Istit. Venet. Sci., 1853, 2. ser. **4.** 1853.3

—— Sullo scheletro degli squali. Mem. R. Istit. Venet. Sci., 1859, **8,** 391–481. 10 pls. 1859.1

—— Una monografia del genere Histiocephalus. Sitzber. Akad. Wiss. Wien (math.-naturw. Cl.) 1860, **39,** 507–516. 1860.1

—— Primitiæ Musei Archigymnasii Patavini (Pisces fossiles) Sitzber. Akad. Wiss. Wien, 1860, **40,** 582–588. 1860.2

—— Sulla piscicoltura. Atti R. Istit. Venet. Sci., 1860–61, 3. ser. **6,** 711–793. 1860.3

—— De Rajidis tribus bolcanis. Sitzber. Akad. Wiss. Wien, 1861, **42,** 576–582. 1861.1

New species are described of Anacanthus, Alexandrinum and Tæniura, from the Eocene of Monte Bolca, Italy.

—— Sopra le valli Salse. Atti R. Istit. Veneto, 1861–62, 3. ser. **8,** 977–1012. 1861.2

—— Die rationelle Zucht der Süsswasserfische und einige in der Volkswirthschaft wichtigen Wasserthiere; unter Benützung der vom Verfasser gemachten Wahrnehmungen auf einer im Auftrage der K. K. Oesterr. Regierung nach Frankreich und dem westlichen Deutschland unternommenen Reise. Wien, 1864. xiv, 346 p. 170 figs. 8°. 1864.1

Molina, *Giovanni Ignazio* [1740–1829] Compendio della storia geografica, naturale, e civile del regno del Chile. Bologna, 1776. viii, 245 p. 8°. 1776.1

Il pesce-spada, p. 75.

—— Saggio sulla storia naturale del Chile, del Signor Abate Giovanni Ignazio Molina. Bologna, 1782. 368 p. 8°. 1782.1

Libro iv. Vermi, insetti, rettili, pesci, uccelli e quadrupedi del Chile, p. 196–367.

There are numerous later editions in various languages, concerning which *see also* Philippi's Comentario in Anal. Univ. Chile, 1867, **29,** 788–795.

—— Versuch einer Naturgeschichte von Chili. Aus dem Italiänischen übersetzt von J. D. Brandis. Leipzig, 1786. ix, 382 p. 8°. 1786.1

—— Compendio de la historia geografica, natural y civil del reyno de Chile, escrito en Italiano por el abate Don Juan Ignacio Molina. Primera parte, que abraza la historia geografica y natural, traducida en Espanol por Don Domingo Joseph de Arquellada Mendoza, etc. Madrid, 1788. xx, 418 p. 8°. 1788.1

Peces, p. 241–253.

—— Essai sur l'histoire naturelle du Chili; traduit de l'italien, et enrichi de notes, par M. Gruvel, D. M. Paris, 1789. xvi, 352 p. 8°. 1789.1

—— Geographical, natural and civil history of Chili. 2 vols. Middletown, Conn., 1808. 1808.1

—— Saggio sulla storia naturale del Chile. 2. ed. Bologna, 1810. v, 306 p. 8°. 1810.1

Moller, *A. F.* Notas sobre a fauna da Serra do Suajo. Annales Sci. Nat., 1894, 42. 1894.1

—— *Petromyzon planeri* Bl. Instit. Coimbra, 1897, 90. 1897.1

Møller, *J. Moses.* Om sommersilden og dens behandling. Trondhjem, 1865. 8°. 1865.1

Møller, *P.* Der Dorschleberthran und seine Zubereitung. Christiania, 1862. 8°. 1862.1

Møllers, *Hans Thiis.* Foredrag om sommersilden. Beretning Internat. Fiskeriudstill. Bergen, 1865, 48–52. 1865.1

Mollier, *S.* Die paarigen Extremitäten der Wirbelthiere. 1893–98. 1893.1

i. Das Ichthyopterygium. Anat. Hefte, 1893, **3**, 1–160. 8 pls. & figs.
ii. Das Cheiropterygium. *Ibid.*, 1895, **5**, 435–529. 8 pls.
iii. Die Entwickelung der paarigen Flossen des Störs. *Ibid.*, 1898, **8**, 1–74. 10 pls. & 17 figs. Abstract in Anat. Anz., 1896, **12**, 193–197. *See also* Backman, G., 1913.1, *supra.*

—— Ueber die Entwicklung der fünfzehigen Extremität. Sitzber. Ges. Morphol. Physiol., München, 1895, **10**, 1–17. figs. 1895.1

—— Die erste Blut- und Gefässbildung bei Ganoiden (In Hertwig, Otto. Handbuch der Entwicklungslehre der Wirbeltiere, Lief. 27 & 28, 1154–1164. Jena, 1906) 1906.1

—— Die erste Entwickelung des Herzens, der Gefässe und des Blutes: Teleostier (In Hertwig, O. Handbuch der Entwicklungslehre der Wirbeltiere, Lief. 27 & 28, 1125–1154. Jena, 1906) 1906.2

Mollin, —— Fenologiska iakttagelser. Utdr. K. F. Hush. Sällsk. Dagb., 1800, 169–173. 1800.1

Pisces, p. 169–171.

Moloney, *C. A.* West African fisheries, with particular reference to the Gold coast colony. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **5**, pt. 10. 1883.1

Monaco, Prince of. *See* **Albert I** (*Prince of Monaco*)

Moncoq, *Victor.* Pisciculture. Laval, 1902. ii, 207 p. 8°. 1902.1

Mondini, *C.* De anguillæ ovariis. Comment. Acad. Bologna, 1783, 406. fig. 1783.1

Mongrolle, —— La France équinoxiale, ou Exposé sommaire des possessions de la république sous l'équateur; comprenant une réfutation en faveur de la Guyane française, des vues d'établissements dans cette partie, et un aperçu des arbres, plantes, animaux, poissons, etc., qui s'y trouvent et qui peuvent être utiles aux Européens. Paris, 1802. pl. 8°. 1802.1

Monica, *Sister* (*pseudon.*) *See* **Taylor,** (*Sister*) *Monica.*

Monoyer, *Ferdinand.* Contribution à l'étude d'équilibre et de la locomotion chez les poissons. C. R. Acad. Sci. Paris, 1866, **62**, 847–850. 1866.1

—— Recherches expérimentales sur l'équilibre et la locomotion chez les poissons. Ann. Sci. Nat. (*Zool.*), 1866, 5. sér. **6**, 5–15. 1866.2

The material for these experiments consisted of species of Cyprinus and Perca.

Monro, *Alexander* (*secundus*) The structure and physiology of fishes explained, and compared with those of man and other animals. Edinburgh & London, 1785. 128 p. 44 pls. fol. 1785.1

—— Vergleichung des Baues und der Physiologie der Fische mit dem Bau des Menschen und der übrigen Thiere. Aus dem Englischen übersetzt und mit eignen Zusätzen und Anmerkungen von P. Campern vermehrt durch Johann Gottlieb Schneider. Leipzig, 1787. viii, 191 p. 34 pls. 1787.1

Monro, *T. K.* On the optic nerve as part of the central nervous system. Journ. Anat. Physiol., 1896, **30** (n. s. **10**), 45–48. 1896.1

Monson, (*Sir*) *William.* Naval tracts (In Churchill's collection of voyages and travels, vol. vi, p. 473–508. 3. ed. London, 1745) 1745.1

Contains notes upon British fisheries.

Montagu, (*Col.*) *George* [1755–1815] For biographical sketch, *see* Cummings, E., in Zool. Annalen, 1913, **5**. Also *Ibid.*, 1914, **6**, 69–70.

—— Observations on some species of British quadrupeds, birds and fishes. Trans. Linn. Soc. London, 1804, **7**, 274–294. pl. 1804.1

The following-named species of fishes are noticed: *Cepola rubescens, Sparus niger, Cyclopterus bimaculatus.*

—— An account of five rare species of British fishes. Mem. Wern. Nat. Hist. Soc. Edinburgh, 1809, **1**, 79–101. 1809.1

The following-named species are described: *Ziphoteca tetradens, Syngnathus æquoreus, Cyclopterus montagui, Ophidium imberbe* and *Blennius galerita.*

—— An account of several new and rare species of fishes, taken on the south coast of Devonshire, with some remarks on some others of more common occurrence. Mem. Wern. Nat. Hist. Soc. Edinburgh, 1816, **2**, 413–463. pls. 1816.1

Montague, *P. D.* A report on the fauna of the Monte Bello islands. Proc. Zool. Soc. London, 1914, 625–652. 4 pls. 1914.1

Montanari, *Pietro.* Compendio della Verona illustrata specialmente ad uso de' forestieri. Verona, 1795. 1795.1

Contains a description of the Eocene fish-beds of Monte Bolca, by G. Tommaselli.

Montanus, *Ernst.* Der "Aalstaat" von Comacchio. Kosmos-Handweiser Naturfreunde, 1911, 8. Jahrg., 59–63. 1911.1

—— Der Farbenwechsel bei Plattfischen [Pleuronectes] Kosmos, Stuttgart, 1912, 9. Jahrg., 336–339. 9 figs. 1912.1

Montel, *R.* Trypanosome d'un poisson de Cochinchine. C. R. Mém. Soc. Biol. Paris, 1905, **57**, 1016–1017. 1905.1

Montelimart, *D. F. L. G. E. V. S. de.* Lettre adressée à M. le comte de Tressan. Journ. Physique (Rozier), 1799, **5**, 444. 1799.1

A critique of the "Discourse on the torpedo," by Sir John Pringle, 1778.

Montgaudry, (*Baron*) —— Observations sur la pisciculture. Bull. Soc. Acclim. Paris, 1854, **1**, 80–87. 1854.1

—— Rapport de la commission chargée de visiter l'exposition des animaux reproducteurs: sur les races bovines, porcines, ovines, les abeilles et les poissons. Bull. Soc. Acclim. Paris, 1854, **1**, 213–224. 1854.2

Montgomery (*junior*), *Thomas Harrison.* A list of the types of fossil vertebrates in the museum of the University of Texas. Biol. Bull. Woods Hole, 1904, **8**, 56–58. 1904.1

The types of *Dentodes planidens*, *Mesodon diastemicus* and *M. dumblianus* Cope are included.

Montgomery-Vignal, *M. W.* Sur l'épithélium des lamelles secondaires des poissons. Arch. Zool. Expér. Gén., 1874, **3**, 24–25. 1874.1

Monti, *Gaetano.* De anguillarum ortu et propagatione. Comment. Acad. Bologna, 1783, **6**. 1783.1

—— De anguillarum vita et propagatione. Comment. Acad. Bologna, 1783, **5**, 392–405. 1783.2

Monti, *M.* Ittiologia della provincia e diocesi di Como. Como, 1846. 12°. 1846.1

—— Notizie dei pesci della provincia di Como, Sondrio e del cantone Ticino. 2. ed. Como, 1864. 105 p. 12°. 1864.1

Monti, *Rina.* Contributo alla conoscenza dei nervi del tubo digerente dei pesci. Rendic. Istit. Lombardo Sci., Milano, 1895, 2. ser. **28**, 688–695. French translation in Arch. Ital. Biol., **24**, 188–195. 1895.1

—— Innervazione del tubo digerente dei pesci ossei. Nota preventiva. Boll. Scientifico, Pavia, 1898, **5**, 14–15. 1898.1

—— Ricerche anatomo-comparative sulla minuta innervazione degli organi trofici nei cranioti inferiori. Atti Fondaz. Cagnola Milano, 1898, **17**. 147 p. 12 pls. 1898.2

—— Sulla morfologia comparata dei condotti escretori delle ghiandole gastriche nei vertebrati. Boll. Scientifico, Pavia, 1898, **5**, 37–39; 65–75; 101–108. 2 pls. 1898.3

Pesci cartilaginei, p. 38–39. Pesci ossei, p. 65–70.

—— Le condizioni favorevoli alla piscicoltura nei laghi Ossolani e Valdostani. Acquicolt. Lombarda, Milano, 1903, **5**, 177–182. 1903.1

—— *Selache maxima* pescate sulle coste di Sardegna. Rivist. Mens. Pesca, Pavia, 1910, 2. ser. **5**, 158–161. 1910.1

—— La variabilità della pressione osmotica nelle diverse specie animali. Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1915, **53**, 391–448. 1915.1

Classificazione dei modi di comportarsi della pressione osmotica in confronto colle variazioni dell' ambiente. Influenza dei periodi della ontogenesi e della nutrizione.

Montin, *Lars* [1722–1785] Beskrifning på en fisk, *Lophius barbatus.* Handl. Svenska Vet. Akad., 1779, 187. — Abh. Schwed. Akad., **41**, 165–173. pl. 1779.1

Montpetit, *A. N.* Les poissons d'eau douce du Canada. Montreal, 1897. 553 p. 12 pls. 4°. 1897.1

Montrouzier, (*Rév. Père*) *Xavier.* Ichthyologie de l'île de Woodlark ou Moiou. Paris, 1856. 1856.1

Montrouzier, *X.*
—— Suite de la faune de l'île de Woodlark ou Moiou. Ichthyologie. Ann. Soc. Agric. Lyon, 1856, **8**, 393–504. 1856.2

—— Essai sur la faune de l'île du Woodlark ou Mojou. Ichthyologie. Lyon, 1857. 8°. 1857.1

Montuori, *A.* Les processus oxydatifs chez les animaux marins en rapport avec la loi de superficie. Arch. Ital. Biol., 1913, **59**, 213–234. 1913.1

Montuori, *A.*, & **Diamare,** *V.* *See* **Diamare** & **Montuori.**

Moodie, *Roy L.* The chub and the Texas horn-fly. Amer. Naturalist, 1909, **43**, 186–188. fig. 1909.1

—— A contribution to the soft anatomy of Cretaceous fishes and a new primitive herring-like fish [*Thrissopater intestinalis*] from the Texas Cretaceous. Kansas Univ. Sci. Bull., 1911, **5**, 275–287. 3 pls. 1911.1

—— The "stomach stones" of reptiles [also in sharks] Science, 1912, n. s. **35**, 377–378. 1912.1

—— The Coal Measures Amphibia and the Crossopterygia. Amer. Naturalist, 1915, **49**, 637–644. 1915.1

The problem of derivation of amphibians from crossopterygian ganoids is discussed.

—— A new fish brain from the Coal Measures of Kansas, with a review of other fossil brains. Journ. Compar. Neurol., 1915, **25**, 135–181. 19 figs. 1915.2

Describes brain structure of Rhadinichthys sp., previously reported by Twenhofel and Dunbar from the Coal Measures near Lawrence, Kansas. Similar remains from the Caney shales of Oklahoma are noticed by C. R. Eastman in Bull. Geol. Soc. Amer., 1913, **24**, 119–120.

—— The scaled Amphibia of the Coal Measures. Science, 1915, n. s. **41**, 463–464. 1915.3

Compares dermal covering with fish scales.

Mooney, *George Stewart.* Remarks on Frazer river fisheries. Edinburgh New Phil. Journ., 1861, n. s. **13**, 164–165. 1861.1

—— Remarks on the salmon fisheries at Vancouver island. Edinburgh New Phil. Journ., 1861, n. s. **13**, 165. 1861.2

Moore, *Benjamin.* Reactions of marine organisms in relation to light and phosphorescence. Trans. Liverpool Biol. Soc., 1909, **23**, 1–34. 1909.1

Moore, *Benjamin*, & **Vincent,** *Swale.* The comparative chemistry of the suprarenal capsules [of teleosts] Proc. Roy. Soc. London, 1898, **62**, 280–283. 1898.1

—— Further observations upon the comparative chemistry of the suprarenal capsules, with remarks upon the non-existence of suprarenal medulla in teleostean fishes. Proc. Roy. Soc. London, 1898, **62**, 352–354. 1898.2

Moore, *Charles.* Charles Moore . . . and his work, by H. H. Winwood; with a list of the fossil types and described specimens in the Bath Museum, by E. Wilson. Proc. Bath Nat. Hist. Antiq. Field Club, 1892, **7**. 64 p. 1892.1

Moore, *Edward.* Description of a new British fish [*Peristedion malarmat* Cuv.] Mag. Nat. Hist., 1837, 2. ser. **1**, 17–19. 5 figs. 1837.1

—— An account of a pilot-fish (*Naucrates ductor*) caught in fresh water. Ann. Mag. Nat. Hist., 1842, **8**, 316–317. — Notizen (Froriep), **21**, 198–199. 1842.1

Moore, *Evelyn V.*, & **Cockerell,** *T. D. A.* *See* **Cockerell** & **Moore.**

Moore, *Frederick.* Work of the fisheries commission. Scient. Amer., 1903, **89**, 290. illust. 1903.1

Moore, *H. F.* List of fishes collected at Sea Isle city, New Jersey, during the summer of 1892. Bull. U. S. Fish Comm. 1892 (1894), **12**, 357–364. 1894.1

—— Observations on the herring and herring fisheries of the northeast coast, with special reference to the vicinity of Passamaquoddy bay. Rept. U. S. Fish Comm. 1896 (1898), **22**, 387–487. pl. 1898.1

Moore, *J. C.* Notes on the fossil mollusca and fish from San Domingo. Quart. Journ. Geol. Soc. London, 1853, **9**, 129–132. 1853.1

Moore, *J. E. S.* On the germinal blastema and the nature of the so-called "reduction division" in the cartilaginous fishes. Preliminary communication. Anat. Anz., 1894, **9**, 547–552. 4 figs. 1894.1

—— On the structural changes in the reproductive cells during the spermatogenesis of elasmobranchs. Quart. Journ. Micr. Sci., 1895, **38**, 275–313. 4 pls. & figs. 1895.1

—— The marine fauna in lake Tanganyika and the advisability of further exploration in the great African lakes. Nature, 1898, **58**, 404–408. fig. 1898.1

—— The Tanganyika problem; an account of the researches undertaken concerning the existence of marine animals in central Africa. London, 1902. xxiii, 371 p. figs. 8°. 1902.1

Moore, *John B.* A digest of international law. 8 vols. Washington, 1906. 1906.1

Vol. i, p. 767–875, deals with the northwestern fisheries. This is the most thorough discussion of the fishery question, having a full discussion, copious quotations, and numerous references.

Moore, *M. A.* Fish mortality in the gulf of Mexico near Florida. Ann. Mag. Nat. Hist., 1881, 5. ser. **8**, 238–240.—Proc. U. S. Nat. Mus., **4**, 125–126.—Smithson. Misc. Coll., **22**, art. 2. 1881.1

Moore, *P.* Report on mackerel investigation in 1897. Rept. U. S. Fish Comm. 1898 (1899), **23**, 1–22. 1899.1

Moore, *Thomas J.* Occurrence of the red bank-fish (*Cepola rubescens* Linn.) in Dundrum bay and in the river Mersey. Liverpool Nat. Journ., 1866, 25. 1866.1

—— The *Lepidosiren* [*Protopterus*] *annectens*, or mudfish of the river Gambia. Liverpool Nat. Journ., 1867, 132–133. 1867.1

—— Summary of the fishes of the Argo expedition. Proc. Lit. Phil. Soc., Liverpool, 1877, no. 31, 61. 1877.1

Moquin-Tandon, *Christian Horace Benedict Alfred* [= **Frédol,** *Alfred, pseudon.*] [1804–1863] Eléments de zoologie médicale contenant la description détaillée des animaux utiles à la médicine et des espèces nuisibles à l'homme, particulièrement des venimeuses et des parasites, etc. Paris, 1860. 428 p. 122 figs. 1860.1

Poissons, p. 36–39, 43, 47, 144, 160, 185, 218.

—— Le monde de la mer, etc. Paris, 1865. 632 p. 21 pls. 8°. 1865.1

—— The same. 2. ed. Paris, 1866. 693 p. 35 pls. 1866.1

Le hareng, p. 447–456.

Moquin-Tandon, *Gaston* [1845 —] Sur les feuillets du blastoderme chez les poissons osseux. Bull. Soc. Philom. Paris, 1875, **12**, 23–25. 1875.1

Moquin-Tandon, *Gaston,* & **Soubeiran,** *J. L.* Etablissements de pisciculture de Concarneau et de Port-de-Bouc. Bull. Soc. Acclim. Paris, 1865, 2. sér. **2**, 533–545. figs. 1865.1

Mordant, *John.* The complete steward, in dictionary form. 2 vols. London, 1761. 1761.1

Treats of fish and fish-ponds.

Mordecai, *E. R.* Wound inflicted by a sting-ray; mortification; amputation; result. New Orleans Med. News Hosp. Gaz., 1860–61, **7**, 679. 1860.1

—— Food of the shad of the Atlantic coast of the United States (*Alosa præstabilis* De Kay) and the functions of the pyloric cœca. Bull. U. S. Fish Comm. 1881 (1882), **1**, 277–282. 1882.1

More, *A. G.* Freshwater fishes (In Venables, E. The Isle of Wight, A guide with a synopsis of its topography . . . geology, zoology and botany, etc. London, 1860. xvi, 526 p. 8°) 1860.1

—— On the occurrence of brown trout [*Salmo fario*] in salt water. Rept. Brit. Assoc. Adv. Sci., 41. meet., 1871, 133. 1871.1

—— Montagu's blenny (*Blennius galerita* Linn.) in Ireland. Zoologist, 1878, 3. ser. **2**, 297. 1878.1

—— Spinous shark [*Echinorhinus spinosus* Blainv.] on the coast of Dublin. Zoologist, 1882, 3. ser. **6**, 434. 1882.1

Moreau, *Emile* [1823–1896] Note sur la région crânienne de l'Amphioxus, pour faire suite aux observations sur la structure de la corde dorsale du poisson nommé *Amphioxus lanceolatus.* C. R. Acad. Sci. Paris, 1870, **70**, 1189–1191. 1870.1

—— Observations sur la structure de la corde dorsale du poisson nommé *Amphioxus lanceolatus.* C. R. Acad. Sci. Paris, 1870, **70**, 1006–1008. 1870.2

—— Sur l'œil du germon [*Thynnus germo*] C. R. Acad. Sci. Paris, 1872, **75**, 1636–1638. 1872.1

—— Poissons de France. Notes sur quelques espèces nouvelles des côtes de l'océan [*Solea melanochira, Umbrina lafonti*] Rev. Mag. Zool., 1874, **2**, 115–119. 1874.1

—— Recherches sur la structure de la corde dorsale de l'Amphioxus. Bull. Acad. Roy. Belgique, 1875, 2. ser. **39**,

Moreau, *E.* 312–331. pl. Also separate; Bruxelles, 1875. 22 p. pl. 8°. — Abstracts in Journ. Zool. (Gervais), 1875, **4**, 239–240. — Bull. Acad. Roy. Belgique, 1875, 2. sér. **39**, 251–257. 1875.1

—— Histoire naturelle des poissons de la France. 3 vols. Paris, 1881. 8°. 1881.1

—— Note sur le squale d'enfer (*Squalus infernus* Blainville) Bull. Soc. Zool. France, 1891, **16**, 47–49. 1891.1

—— Supplement à l'histoire naturelle des poissons de la France. Paris, 1891. 144 p. illust. 8°. 1891.2

—— Le syngnathe à nageoire pectorale courte (*Syngnathus microchirus*, n. sp.) Bull. Soc. Zool. France, 1891, **16**, 187–190. 1891.3

—— Manuel d'ichthyologie française. Paris, 1892. viii, 650 p. 3 pls. 8°. 1892.1

—— Les poissons du département de l'Yonne. Bull. Soc. Sci. Yonne, 1898, **51**, pt. 2, 143–227. *Ibid.*, **52**, pt. 2, 3–82. 1898.1

Moreau, *François Armand.* Expériences sur les nerfs du sentiment et du mouvement, et sur le nerf pneumogastrique des poissons. C. R. Mém. Soc. Biol. Paris, 1859, **1**, 107–108. 1859.1

—— Action du curare sur la torpille électrique. C. R. Acad. Sci. Paris, 1860, **51**, 573–575. 1860.1

—— Expériences sur la torpille. Ann. Sci. Nat. (*Zool.*), 1860, 4. sér. **14**, 122–126. — L'Institut, 1860, **28**, 82; 366–367; 404–405. 1860.2

i. Note sur les conditions physiologiques nécessaires à la production de la décharge électrique par la torpille.

ii. De l'action du curare sur la torpille.

—— Recherches anatomiques et physiologiques sur les nerfs de sentiment et de mouvement chez les poissons. Ann. Sci. Nat. (*Zool.*), 1860, 4. sér. **13**, 380–382. 1860.3

—— Sur l'origine de l'électricité dans l'appareil de la torpille. C. R. Mém. Soc. Biol. Paris 1859 (1860), 3. sér. **1**, 231–232. 1860.4

—— Distinction anatomique des nerfs du sentiment et du mouvement chez les poissons. C. R. Mém. Soc. Biol. Paris 1860 (1861), 3. sér. **2**, 159–160. 1861.1

—— L'électricité de la décharge de la torpille recueillie et conservée dans un appareil de physique. C. R. Acad. Sci. Paris, 1861, **53**, 512–515. 1861.2

—— Expériences expliquant le phénomène électrique de la torpille. C. R. Mém. Soc. Biol. Paris 1860 (1861), 3. sér. **2**, 156–158. 1861.3

—— Recherches sur la nature de la source électrique de la torpille, et manière de recueillir l'électricité produite par l'animal. Ann. Sci. Nat. (*Zool.*), 1862, 4. sér. **18**, 5–30. pl. 1862.1

—— Sur les gaz de la vessie natatoire des poissons. C. R. Mém. Soc. Biol. Paris, 1862, **4**, 190–191. 1862.2

—— Réponse à M. Matteucci, à propos de son travail sur la torpille. C. R. Mém. Soc. Biol. Paris 1862 (1863), 3. sér. **4**, 55–56. 1863.1

—— Sur la fonction électrique de la torpille. C. R. Mém. Soc. Biol. Paris 1862 (1863), 3. sér. **4**, 87–92. 1863.2

—— Expériences pour servir à l'histoire physiologique de la vessie natatoire des poissons. C. R. Acad. Sci. Paris, 1863, **56**, 629. 1863.3

—— Sur l'air de la vessie natatoire des poissons. C. R. Acad. Sci. Paris, 1863, **57**, 37–39; 816–820. — Rev. Mag. Zool., **15**, 413–414. 1863.4

—— On the air of the swimming-bladder of fishes. Ann. Mag. Nat. Hist., 1864, 3. ser. **13**, 262–264. 1864.1

—— Sur la voix des poissons. C. R. Acad. Sci. Paris, 1864, **59**, 436–437. 1864.2

—— Variation des proportions d'oxygène dans la vessie natatoire des poissons. C. R. Acad. Sci. Paris, 1864, **58**, 219. 1864.3

—— De l'influence de la section du grand nerf sympathique sur la composition de l'air de la vessie natatoire. C. R. Acad. Sci. Paris, 1865, **60**, 405–408. — C. R. Mém. Soc. Biol. Paris, **2**, 21–24. 1865.1

—— Les poissons électriques. Rev. Cours Scient. France Etranger, 1865–66, 3. année, 722–727. 1865.2

—— Mémoire sur la vessie natatoire, au point de vue de la station et de la locomotion du poisson. C. R. Acad.

Sci. Paris, 1874, **78**, 541–544; 737–740. *Ibid.*, **79**, 1295–1299; 1517–1518. 3 figs. 1874.1

—— Sur le rapport qui existe entre la composition chimique de l'air de la vessie natatoire et la profondeur à laquelle sont pris les poissons. C. R. Acad. Sci. Paris, 1874, **79**, 1134–1136. 1874.2

—— Ueber die Schwimmblase und die Volumveränderungen der Fische. Abstract in Naturforscher (Sklarek), 1874, 7. Jahrg., 215. 1874.3

—— Canal de sûreté des poissons. Séances Soc. Phys., Paris, 1875, 90–91. 1875.1

—— Conditions physiologiques de la vessie natatoire. C. R. Mém. Soc. Biol. Paris 1874 (1875), 6. sér. **1**, 88–90; 119–120; 376–377. 1875.2

—— Fonction hydrostatique de la vessie natatoire. C. R. Assoc. Franç. Avanc. Sci., 4. sess., 1875, 77–85. — Rev. Scient., **9**, 217–220. 1875.3

—— Sur la vessie natatoire au point de vue de la station et de la locomotion. Abstract in Journ. Zool. (Gervais), 1875, **4**, 10–13. 1875.4

—— La vessie natatoire considérée comme appareil hydrostatique. C. R. Mém. Soc. Biol. Paris, 1875, 2. sér. **1**, 376–377. — Séances Soc. Phys. Paris, 1875, 19–22. — Journ. Phys., **4**, 305–307. 1875.5

—— Sur la vessie natatoire du *Caranx trachurus*, et sur la fonction hydrostatique de cet organe. C. R. Acad. Sci. Paris, 1875, **80**, 1247–1250. 1875.6

—— Canal de sûreté de la vessie natatoire chez le sinchard (*Caranx trachurus*) C. R. Mém. Soc. Biol. Paris 1875 (1876), 6. sér. **2**, 223–225. 1876.1

—— Expériences et considérations sur l'influence de la pression sur la vie et les fonctions des poissons. C. R. Mém. Soc. Biol. Paris 1875 (1876), 6. sér. **2**, 125. 1876.2

—— Recherches expérimentales sur les fonctions de la vessie natatoire. Ann. Sci. Nat. (*Zool.*), 1876, 5. sér. **4**, art. 8. 1876.3

—— Sur la vessie natatoire de Caranx. C. R. Mém. Soc. Biol. Paris 1875 (1876), 6. sér. **2**, 180. 1876.4

—— La vesica natatoria dei pesci considerata come apparecchio idrostatico. Abstract in Nuov. Cimento, 1876, **16**, 65–66. 1876.5

—— Fait relatif à la fonction hydrostatique de la vessie natatoire. C. R. Mém. Soc. Biol. Paris, 1879, 2. sér. **4**, 228–229. 1879.1

Moreau de Jonnès, *Alexandre* [1778–1870] Sur les poissons toxicofères des Indes occidentales. Bull. Soc. Philom. Paris, 1819, 136. — Journ. Méd., **11**, 356–389. 1819.1

—— Recherches sur les poissons toxicophores des Indes orientales. Paris, 1821. 8°. 1821.1

Morel-Fredel, —— La pisciculture dans la Haute-Savoie et le Faucigny. Bull. Soc. Centr. Aquicult. Pêche, 1899, **11**, 73–77. 1899.1

Morelli, *N.* Resti organici rinvenuti nella caverna delle Arene Candide. Atti Soc. Ligust. Sci. Nat. Genova, 1891, **2**, 171–205. 1891.1

Pesci, p. 175–178.

Morena, *T.* Le formazione coceniche e mioceniche fiancheggianti il gruppo del Catria nell' Appennino centrale. Boll. Soc. Geol. Ital., 1899, 18. anno, 471–483. 2 figs. 1899.1

Moretti, *S.* La pesca, la pescicoltura e la caccia nella provincia di Venezia. Venezia, 1887. 8°. 1887.1

Morey, *C. R.* The origin of the fish-symbol. Princeton Theolog. Rev., Princeton, 1910, **8**, 93–106; 231–246; 401–432. *Ibid.*, 1911, **9**, 268–289. *Ibid.*, 1912, **10**, 278–298. 1910.1

Morey, *Frank.* A guide to the natural history of the isle of Wight, etc. Newport & London, 1909. xx, 560 p. 26 pls. illust. 8°. 1909.1

Fishes, by P. Wadham.

Morgan, *Conway Lloyd* [1852 —] Animal biology. An elementary text-book. London, 1887. xxii, 370 p. illust. 1887.1

Morgan, *Conway Lloyd,* & **Charbonnier,** *H. J. See* **Charbonnier & Morgan.**

Morgan, *Conway Lloyd,* & **Heath,** *A. J. See* **Heath & Morgan.**

Morgan, *Irby.* Directions for transporting living fish fry. Forest & Stream, 1878, **10**, 398. 1878.1

Morgan, *Jacques de.* Mission scientifique Perse. 3 vols. Paris, 1904. 1904.1

Poissons fossiles, par F. Priem, vol. iii, pt. 4.

—— Note sur la géologie de la Perse et sur les travaux paléontologiques de M. H. Douvillé sur cette région. Bull. Soc. Géol. France, 1905, 4. sér. **5**, 170–189. 2 figs. 1905.1

Contains some notice of fossil fishes.

—— Délégation en Perse. Annales d'histoire naturelle. Tome I. Paléontologie. 79 p. 9 pls. & map. Paris, 1908. 4°. 1908.1

Poissons fossiles de Perse, par F. Priem, 1–23.

Morgan, *John Pierpont* [1837–1913] Catalogue of manuscripts and early printed books from the libraries of William Morris, Richard Bennett, Bertram, fourth Earl of Ashburnham, and other sources, now forming a portion of the library of J. Pierpont Morgan. Manuscripts. London, 1906. xix, 210 p. 20 col. pls. 1906.1

The descriptions of the MSS. are by Dr. M. R. James.
No. 107. Bestiary of late xii century (*circa* 1170) of 120 folios, given by Philip, Canon of Lincoln, in 1187 to the Augustinian priory of Radford, now Worksop. The section entitled "De naturis piscium," folio 68 b, is illustrated by a figure of two men in a ship, and a flying fish, the "serra," is represented in the air above.
No. 108. Of the government of health. A treatise in French in four parts on health and diet, dating from about the middle of the xv century. Among the finely drawn illustrations is one (fol. 132) showing fish in a stream.

Morgan, *Thomas Hunt* [1866 —] Experimental studies on the teleost eggs. Preliminary communication. Anat. Anz., 1893, **8**, 803–814. 1893.1

—— The formation of the fish embryo. Journ. Morphol., 1895, **10**, 419–472. 3 pls. 1895.1

—— The number of cells in larvæ from isolated blastomeres of Amphioxus. Arch. Entw.-Mech., Leipzig, 1896, **3**, 269–294. pl. 1896.1

—— Regeneration in teleosts. Arch. Entw.-Mech., Leipzig, 1900, **10**, 120–134. 14 figs. 1900.1

—— Regeneration. New York & London, 1901. xii, 316 p. illust. 8° (Columbia University biological series, vii) 1901.1

—— Further experiments on the regeneration of the tail of fishes. Arch. Entw.-Mech., Leipzig, 1902, **14**, 539–561. figs. 1902.1

—— Experimental zoology. New York, 1907. xii, 454 p. illust. 1907.1

Experiments on teleosts, salmon, shad, trout, pike, etc.

—— A critique of the theory of evolution. Princeton, 1916. x, 197 p. illust. 8°. 1916.1

The evidence from embryology, p. 14–23. Young teleosts are figured.

Morgan, *Thomas Hunt,* & **Hazen,** *Anna Putnam.* The gastrulation of Amphioxus. Journ. Morphol., 1900, **16**, 569–600. 2 pls. & 29 figs. 1900.1

Morganti, *G.* Sopra lo sviluppo dei cyprini dopo essere usciti dall' uovo e norme sulla fecondazione artificiale dei pesci. Pavia, 1854. 1854.1

Morgenroth, *E.*, & **Hormann,** —— *See* **Hormann** & **Morgenroth.**

Morgenstern, *M.* Die Grenzfaserschicht; ein Beitrag zur Histologie des Zahnbeins. Arch. Anat. Physiol. (*Anat. Abth.*), 1909, 331–338. 2 pls. 1909.1

Morgera, *Arturo.* Ricerche sulla glandola ed il canale di Leydig nei maschi di Scyllium. Arch. Zool. Napoli, 1909, **4**, 179–193. pl. 1909.1

—— Sulla glandola digitale degli Scyllium. Boll. Soc. Nat. Napoli, 1910 , **23**, 51–52. 1910.1

—— A proposito della funzione della glandola digitale degli Scyllium e di quella dell' appendice vermiforme dei mammiferi. Boll. Soc. Nat. Napoli 1913 (1914), **26**, 99–100. 1914.1

Morin, *B.* Examen chimique de l'éperlan [*Salmo eperlanus* Linn.] Journ. Pharm., 1822, **8**, 61–65. 1822.1

—— Analyse des œufs de la truite commune des rivières (*Salmo fario* Linn.) et ceux de la carpe (*Cyprinus carpio* Linn.) Journ. Pharm., 1823, **9**, 203–208. 1823.1

—— Recherches chimiques sur le sang de poisson. Journ. Chimie Méd., 1829, **5**, 457–465. — Recueil Soc. Agric. Eure, **1**, 108–109. — Trav. Acad. Rouen, 1829, 35–44. 1829.1

Morin-Jean, —— Le dessin des animaux en Grèce, d'après les vases peints [avec un préface d'Edmond Pottier] Paris, 1911. 262 p. illust. 8°. 1911.1

Among the illustrations are a number of ancient Greek vase-paintings showing fishes. Some of these are reproduced by A. Emerson in his notice of this work, found in Sci. American Suppl., 1914, **77**, 154–158.

Moroff, *Theodor.* *Chilodon cyprini,* nov. spec. Zool. Anz., 1902, **27**, 86. 1902.1

—— Ueber die Entwicklung der Kiemen bei Knochenfischen. Arch. Mikr. Anat., 1902, **60**, 428–459. 2 pls. 1902.2

—— Ueber die Entwicklung der Kiemen bei Fischen. Arch. Mikr. Anat., 1904, **64**, 189–213. 2 pls. 1904.1

Morrill, *Albro D.* The pectoral appendages of Prionotus and their innervation. Journ. Morphol., 1895, **11**, 177–191. pl. & figs. 1895.1

—— The innervation of the auditory epithelium of *Mustelus canis.* Journ. Morphol., 1896, **14**, 61–82. 2 pls. 1896.1

Morrill (*junior*), *C. V.* Regeneration of certain structures in *Fundulus heteroclitus.* Biol. Bull. Woods Hole, 1906, **12**, 11–20. 1906.1

Morris, *C. W.* The mesh of herring nets; should it be fixed by law for herring nets? — if so, of what size? — or should fishermen be at liberty to use any kind of mesh they please? (In Fish and fisheries, edited by David Herbert, p. 180–185. Edinburgh & London, 1883. 8°) 1883.1

Morris, *Charles.* On the air-bladder of fishes. Proc. Acad. Nat. Sci. Philad. 1885 (1886), 124–135. 1886.1

—— The origin of lungs, a chapter in evolution. Amer. Naturalist, 1892, **26**, 975–986. 1892.1

Morris, *Daniel.* Destruction of mosquitos by small fish [*Girardinus pœciloides*] in the West Indies. 1. Congr. Intern. Entom., 1911, Mém. **1**, 171–172. 1911.1

Morris, *Earl Leonard,* & **Starks,** *Edwin Chapin.* *See* **Starks** & **Morris.**

Morris, *Ethel Remfrey,* & **Raff,** *Janet.* Notes on the structure of *Asymmetron bassanum* Günther. Proc. Roy. Soc. Victoria, 1909, n. s. **22**, 85–90. 3 pls. 1909.1

Morris, *Francis Orpen* [1810–1893] Anecdotes in natural history (zoology) London, 1860. 8°. 1860.1

Morris, *John* [1810–1886] A catalogue of British fossils. London, 1843. x, 222 p. 8°. 1843.1

The same. 2. ed. London, 1854. vii, 372 p. 8°.

—— Remains of fishes, etc. (In Prestwich, Joseph. On the structure of the strata between the London clay and the Chalk in the London and Hampshire Tertiary systems) Quart. Journ. Geol. Soc. London, 1853, **10**, 156–157. pl. 1853.1

—— Gems from private collections, no. 2. On the genus Æchmodus from the Lias of Lyme Regis, Dorsetshire. Geol. Mag., 1869, **6**, 337–341. pl. 1869.1

—— Ueber die Fischgattung Æchmodus [Dapedius] aus dem Lias von Lyme Regis, Dorsetshire. Neues Jahrb. Mineral., 1870, 1036. 1870.1

Morris, *John,* & **Roberts,** *George E.* On the Carboniferous limestone of Oreton and Farlow, Clee Hills, Shropshire. With a description of a new Pterichthys, by Sir Philip G. Egerton. Quart. Journ. Geol. Soc. London, 1862, **18**, 94–106. pl. 1862.1

Table showing the geographical range of the fishes of the Mountain Limestone, p. 99–102.

—— List of fossil fish-remains from the Mountain Limestone of Oreton. Proc. Warwickshire Nat. Arch. Field Club, 1864, 35–36. 1864.1

Morris, *J. Cheston.* Remarks on the fishes brought from Panama. Proc. Acad. Nat. Sci. Philad., 1857, **9**, 178. 1857.1

Records the following species not previously known to exist in the Pacific: *Exocœtus acutus, Pristipoma rodo* and *Ephippus faber.*

—— [Description of *Pomotis guttatus,* n. sp.] Proc. Acad. Nat. Sci. Philad. 1859 (1860), 3. 1860.1

Morris, *Margaret.* The behavior of the chromatin in hybrids between Fundulus and Ctenolabrus. Journ. Exper. Zool., 1914, **16**, 501–521. 5 pls. 1914.1

Fundulus ♀ × Ctenolabrus ♂. Close application of germ-nuclei without fusion.

Morris, *Peter H.* A salmon fish. Chicago Field, 1879, **11**, 244. 1879.1

Morris, *Robert T.* Game-fishes of Connecticut. List of species. Forest & Stream, 1876, **7**, 20. 1876.1

Morrison, *Alexander.* Communications respecting the natural history of the salmon. Trans. Highland Soc. Scotland, 1803, **2**, 388–393. 1803.1

Morrison, *W.* Notes on the physical aspects and on the food-fishes of the Liao basin, North China. Ann. Mag. Nat. Hist., 1898, 7. ser. **1**, 263–266. 1898.1

Morrison, *W. D.* Observations connected with the migration of the herring and mackerel. Edinburgh New Phil. Journ., 1829, **7**, 317–321. — Notizen (Froriep), 1830, **27**, 52–54. 1829.1

Morriss, *T. W.* Spawning of carp in a small basin at Brenham, Texas. Bull. U. S. Fish Comm. 1882 (1883), **2**, 27. 1883.1

Morrow, *R.* Notes on the bones of *Salmo salar* specimens from Labrador. Proc. Trans. Nova Scotian Instit. Nat. Sci., 1880, **5**, pt. 2, 162–188; 218–222. 11 pls. 1880.1

Morse, *Edward Sylvester* [1838—] Jean Louis Rudolphe Agassiz. Pop. Sci. Monthly, 1907, **71**, 542–549. 1907.1

Morse, *Grant M.* Address on work of the state game and fish warden. Trans. Amer. Fisheries Soc. 1900 (1901), 164–167. 1901.1

Mortensen, *Ole Theodor Jensen.* Fortsatte undersøgelser over rødspætteyngelens forekomst i Östersøen i 1894 og 95. Rept. Dan. Biol. Stat. 1894 (1895), 53–64. 1895.1

—— Om nogle for fiskerierne skadelige dyr. Dansk Fiskeriforen, Medlemsbl., 1896, 5. Jahrg., 291–293; 298–300; 305–307. 1896.1

—— Sind die Ostsee-Schollen vom Kattegat her eingewandert? Mitth. Deutsch. Seefischerei Ver., 1897, **13**, 216–218. 1897.1

—— Om laksens naturalhistorie samt lidt om fiskearl. Fiskeritidskr. Finl., 1900, **9**, 85–90; 105–113; 125–131; 147–153. 1900.1

—— The Danish expedition to Siam, 1899–1900. Dansk Fiskeriforen. Medlemsbl., Kjøbenhavn, 1901, **11**, 134–136. 1901.1

Morthimer, *J. H.* Sun-fish [Orthagoriscus] in the voyage from Liverpool to New York. Liverpool Nat. Journ., 1866, 57. 1866.1

Mortillet, *Louis Laurent Gabriel de* [1821–1898] Origine de la navigation et de la pêche. Paris, 1867. 48 p. illust. 8°. 1867.1

—— Origines de la chasse, de la pêche et de l'agriculture. I. Chasse, pêches, domestication. Paris, 1890. 8°. 1890.1

Mortimer, *J. H.* Soles again brought to America. Forest & Stream, 1880, **15**, 107. 1880.1

Mortimer, *John,* & **Clarke,** *W. H.* *See* **Clarke & Mortimer.**

Morton, *Allport.* On the present stage of the salmon experiment. Proc. Roy. Soc. Tasmania, 1878, 109–114. 1878.1

—— Description of a new species of shark. Proc. Roy. Soc. Tasmania, 1893, 211–213. 1893.1

—— *Antennarius mitchellii,* sp. nov. Proc. Roy. Soc. Tasmania, 1896, 98. 1896.1

—— Lampris. Proc. Roy. Soc. Tasmania 1896 (1897), 99. 1897.1

Morton, *C.* Diarrhœa as a result of fish-poisoning at Nassau. Statist. Rept. Health Navy, London, 1865, 107–110. 1865.1

Morton, *Levi Parsons* [1824—] Fisheries and fish-culture. Their importance to the industry and wealth of the country. Washington, 1880. 19 p. 8°. 1880.1

Speech in the House of Representatives, Feb. 4, 1880.

—— The importance of fish culture. Forest & Stream, 1880, **14**, 45. 1880.2

Morton, *Samuel George* [1799–1851] Synopsis of the organic remains of the Cretaceous group of the United States, illustrated by 19 plates, to which is added an appendix containing a tabular view of the Tertiary fossils hitherto discovered in North America [Washington] 1834. vi, 88 p. 1834.1

Pls. xi, xii contain figures of teeth of sharks. The names of these, given provisionally by L. Agassiz, are found in the "Additional observations."

—— Notice of the fossil teeth of fishes of the United States, the discovery of the Gault in Alabama, and a proposed division of the American Cretaceous group. Amer. Journ. Sci., 1835, **28**, 276–278. — Neues Jahrb. Mineral., 1837, 367. 1835.1

—— Description of some new species of organic remains of the Cretaceous group of the United States; with a tabular view of the fossils hitherto discovered in this formation. Journ. Acad. Nat. Sci. Philad., 1839–42, **8**, 207–227. 2 pls. 1842.1

Contains description and figure of *Ptychodus mortoni.*

Moseley, *Henry Nottige* [1844–1891] On the substance exhibited at the British Association, Brighton, by Mr. P. L.

Sclater, and stated to be the ossified notochord of a fish. Nature, 1872, **6**, 432. 1872.1

Calcified axis of a pennatulid.

—— Sharks, sucker-fish and pilot-fish. Scient. Amer., 1879, **12**, 375–376. 1879.1

—— Pelagic life [including fishes] Nature, 1882, **26**, 562–564. 1882.1

—— The fish-eating Utricularia, or bladderwort. Bull. U. S. Fish Comm. 1884, **4**, 261. pl. 1884.1

—— Report on the structure of the peculiar organs on the head of Ipnops (In Report on the scientific results of the voyage of H. M. S. "Challenger" during the years 1873–76, vol. 22, append. A, p. 269–276. pls. London, 1887) 1887.1

Moser, *Fanny.* Beitrag zur vergleichenden Entwicklungsgeschichte der Schwimmblase der Fische. Anat. Anz., 1903, **23**, 609–611. — Arch. Mikr. Anat., **63**, 532–574. 4 pls. 1903.1

—— Beschreibung einer Duplicitas anterior der Bachforelle und Besprechung der Theorie von Fr. Kopsch über Bildung des Wachstumszentrums für Rumpf und Schwanz. Anat. Anz., 1907, **30**, 33–52; 81–106; 320. 14 figs. 1907.1

Moser, (*Capt.*) *Jefferson Franklin* [1848 —] The salmon and salmon fisheries of Alaska. Bull. U. S. Fish Comm. 1898 (1899), **18**, 1–178. 62 pls. & 57 figs. 1899.1

—— Salmon investigations of the steamer "Albatross" in the summer of 1900. Bull. U. S. Fish Comm. 1901 (1902), **21**, 175–398. 44 pls. & maps. 1902.1

Moser, (*Mrs.*) *N.* From sea to table; with descriptions of all kinds of fish in British waters and numerous recipes, how to cook & serve them [n. p., *c.* 1910?] 1910.1

Moser-Ott, —— Historischer Bericht über die Fischerei im Kanton Schaffhausen. Intern. Fischerei-Ausstell. Berlin, 1880 (Schweiz. Kat.), 25–29. 1880.1

—— Statistik der Fischerei und künstlichen Fischzucht in Schaffhausen für 1879. Intern. Fischerei-Ausstell. Berlin, 1880 (Schweiz. Kat.), 1–3. 1880.2

Moses, *Henry.* The herring on the coast of Newfoundland. Zoologist, 1864, **22**, 9296. 1864.1

Mosher, *A. A.* Notes on fish-culture in Iowa. Bull. U. S. Fish Comm. 1885, **5**, 312. 1885.1

—— Propagating buffalo-fish. Bull. U. S. Fish Comm. 1885, **5**, 190. 1885.2

Mosher, *A. A.*, & **Perry,** *W. A.* *See* **Perry & Mosher.**

Mosher, *Gideon.* The menhaden question. Fall River, Mass., 1882. 1882.1

Notes on the menhaden fisheries, and the problem of the movements and multiplication of menhaden along the American coast with a series of questions and answers.

—— Do striped bass (*Roccus lineatus*) feed on menhaden? Bull. U. S. Fish Comm. 1883, **3**, 410. 1883.1

Mosso, *Angelo* [1846 —] Applicazioni del verde metile per conoscere la reazione chimica e la morte delle cellule. Atti Accad. Lincei Roma (Rendic.), 1888, 4. ser. **4**, pt. 1, 419–427. — Arch. Ital. Biol., **10**, 29–39. 1888.1

—— Azione fisiologica del veleno che si trova nel sangue dei murenidi. Atti Accad. Lincei Roma (Rendic.), 1888, 4. ser. **4**, pt. 1, 673–685. 1888.2

—— Esame critico dei metodi adoperati per studiare i corpuscoli del sangue. Atti Accad. Lincei Roma (Rendic.), 1888, 4. ser. **4**, pt. 1, 427–433. — Arch. Ital. Biol., **10**, 40–48. 1888.3

—— Il sangue embrionale di *Scyllium catulus.* Atti Accad. Lincei Roma (Rendic.), 1888, 4. ser. **4**, pt. 1, 489–497. 1888.4

—— Il sangue nello stato embrionale e la mancanza dei leucociti. Atti Accad. Lincei Roma (Rendic.), 1888, 4. ser. **4**, pt. 1, 434–442. — Arch. Ital. Biol., **10**, 48–68. 1888.5

—— Un veleno che si trova nel sangue dei murenidi. Atti Accad. Lincei Roma (Rendic.), 1888, 4. ser. **4**, pt. 1, 665–673. — Arch. Ital. Biol., **10**, 141–169. 1888.6

—— Ueber verschiedene Resistenz der Blutkörperchen bei verschiedenen Fischarten. Biol. Centralbl., 1891, **10**, 570. 1891.1

Veränderung des Blutserums, wenn Seefische aus dem Meerwasser in Süsswasser gebracht wurden. Fische welche sowohl in süssen, wie in Salzwasser leben können, haben sehr resistenten Blutkörperchen.

Mosso, *Ugolino.* Recherches sur la nature du venin qui se trouve dans le sang de l'anguille. Arch. Ital. Biol., 1889, **12**, 229–236. 1889.1

—— Ricerche sulla natura del veleno che si trova nel sangue dell' anguilla. Atti Accad. Lincei Roma (Rendic.), 1889, 4. ser. **5**, 5. — 62. Vers. Deutsch. Naturf. Aerzte, 1890. 1889.2

Mottram, *V. H.* Fatty acid metabolism in the liver. II. The relation of the fatty acids in the food of plaice to those in their livers and myotomes. Journ. Physiol. London, 1912, **45**, 363–369. 1912.1

Moucheron, (*Comte*) —— *de.* Notes pour servir à l'histoire de la pisciculture en Normandie. Bull. Soc. Acclim. Paris, 1897, **44**, 146–152. 1897.1

Mougeot, *A.* Note relative à certains restes organiques du Muschelkalk dans les départements des Vosges et de la Meurthe, appartenant à des poissons décrits par Agassiz et Hermann de Meyer. Bull. Soc. Géol. France, 1837, **6**, 19. Abstract in Neues Jahrb. Mineral., 1837, 98. 1837.1

Mouhot, *H.* Travels in the central parts of Indo-China, etc. 2 vols. London, 1864. 8°. 1864.1

Vol. ii, Appendix. List of the new species of . . . freshwater fishes, by Albert Günther.

Moulder, *E.* Sur la phosphorescence naturelle et artificielle des poissons. Journ. Physiol., 1861, **4**, 234–242. 1861.1

Moule, *H. M.* Natural history in the fourteenth century. Rept. Marlborough College Nat. Hist. Soc., 1868, 38–45. 1868.1

Moulé, *L.* Etudes zoologiques et zootechniques dans la littérature et dans l'art. La faune d'Homère. Mém. Soc. Zool. France, 1909, **22**, 183–233. 1909.1

Poissons, p. 202–205. *See also* **Groshans,** *G. P. F.* Prodromus faunæ Homeri et Hesiodi. 2 pts. 1839–43.

Moulin, *H.*, & **Baumberger,** *E.* *See* **Baumberger** & **Moulin.**

Moullin du Coudray, *P. R. M.* Génération de l'anguille. Bull. Soc. Acclim. Paris, 1876, 3. sér. **3.** 1876.1

Moulton, *L. M. S.* Intelligence of carp. Forest & Stream, 1880, **15**, 427. 1880.1

Mourgue, *Marcel.* Le barbeau méridional (*Barbus meridionalis* Cuvier) Bull. Soc. Hist. Nat. Toulouse, 1901, **34**, 12. 1901.1

—— Le blennie cagnette [*Blennius cagnota* Lin.] dans la Garonne. Bull. Soc. Hist. Nat. Toulouse, **1901**, **34**, 10–12. 1901.2

—— Note sur une variété de l'épinoche. Epinoche à deux épines (*Gasterosteus biaculeatus* Cresp.) Bull. Soc. Hist. Nat. Toulouse, 1901, **34**, 29–31. 1901.3

—— Sur *Blennius cagnota* dans la Garonne. Feuil. Jeun. Natural., Paris, 1909, **39**, 87. 1909.1

Mourgues, *L.*, & **Gauthier,** *Armand.* *See* **Gauthier** & **Mourgues.**

Mourlon, *Michel.* Le Bruxellien des environs de Bruxelles. Ann. Soc. Géol. Belgique, 1905, **32**, 329–358. 5 figs. 1905.1

Mourrut, ——, & **Richet,** *Charles.* *See* **Richet** & **Mourrut.**

Mowat, *John.* Movements of salmon. Forest & Stream, 1880, **15**, 48. 1880.1

Mowbray, *Louis L.* Bermuda fishes. Methods employed in their capture and transportation for exhibition. N. Y. Zool. Soc. Bull., 1910, 712–714. 4 figs. 1910.1

Mowbray, *Louis L.*, & **Nichols,** *John Treadwell.* *See* **Nichols** & **Mowbray.**

Mowitch, —— Fraser river salmon. Forest & Stream, 1880, **14**, 368; 389; 408. 1880.1

Mowry, *Albert H.* Suspended animation by freezing. Forest & Stream, 1875, **4**, 5. 1875.1

Experiments in resuscitating frozen perch.

Možeyko, *Bronislav.* Etudes sur le système circulatoire de la lamproie (*Petromyzon fluviatilis*) [Text in Polish] Sprawozd. Towarz. Naukow., Warszawa, 1910, **52**, 279–310. — Anat. Anz., **36**, 618–643. 4 figs. 1910.1

—— Ueber die Injektion des Vascularsystems von *Petromyzon fluviatilis* [Text in Polish] Kosmos, Lwów Roczn., 1910, **35**, 931–940. — Anat. Anz., **36**, 618–643. 4 figs. — Zeitschr. Wiss. Mikr., **27**, 248–256. 1910.2

—— Die Dohrnschen Sinus bei Petromyzon. Kosmos, Lwów, Roczn., 1911, 1063–1070. 1911.1

Text in Polish with résumé in German.

—— Les sinuses dits " de Dohrn " chez les pétromyzones et leurs rapports avec le système veineux de la queue [Text in Polish] Sprawozd. Towarz. Naukow., Warszawa, 1911, **4**, 400–401. 1911.2

—— Untersuchungen über das Gefässsystem von Petromyzon [Text in Polish] Kosmos, Lwów Roczn., 1911, **36**, 1063–1072. 1911.3

—— Ist das Cyclostomenauge primitiv oder degeneriert? Anat. Anz., 1912, **42**, 612–620. 4 figs. 1912.1

—— Ueber das Geffässsystem von Amphioxus. Anat. Anz., 1912, **42**, 477. 1912.2

—— Untersuchungen über das Gefässsystem von *Petromyzon fluviatilis*. Ueber den Bau und den morphologischen Wert des Vaskularsystems der Petromyzonten. Anat. Anz., 1912, **40**, 506–513. 1912.3

—— Untersuchungen über das Gefässsystem von *Petromyzon fluviatilis*. Ueber die Vaskularisation des Schwanzes. Anat. Anz., 1912, **40**, 469–486. 1912.4

—— Untersuchungen über das Vaskularsystem der Petromyzonten. Nochmals über die Dohrn'schen Sinuse. Anat. Anz., 1912, **42**, 454–457. 1912.5

—— Mikrotechnische Mitteilungen. Ueber Karminfutterung des Amphioxus. Zeitschr. Wiss. Mikr., 1913, **30**, 59–67. 1913.1

—— Pisces (Fische) begonnen von Giuseppe Favaro (In Bronn, H. G. Klassen und Ordnungen des Tier-Reichs, Bd. vi, Abt. 1, Liefg. 34–38. Leipzig, 1913, 519–582. pl.) 1913.2

—— Sur le système circulatoire de l'Amphioxus et sa comparaison avec celui des autres poissons. Commun. 9. Congr. Intern. Zool. Monaco, 1913, 137. 1913.3

—— Ueber das Lymphgefässsystem der Fische. Vorläufige Mittheilung. Anat. Anz., 1913, **45**, 102–104. 1913.4

—— Untersuchungen über das Gefässsystem der Fische. Ueber das oberflächliche subcutane Gefässsystem von Amphioxus. Mitt. Zool. Stat. Neapel, 1913, **21**, 65–103. pl. & 2 figs. 1913.5

Možeyko, *Bronislav,* & **Favaro,** *Giuseppe. See* **Favaro** & **Možeyko.**

Mrâzek, *A.*, & **Vejdovský,** *F. See* **Vejdovský** & **Mrâzek.**

Muckett, *N. M.* The lamprey as a food fish. Chicago Field, 1879, **12**, 30. 1879.1

Mudge, *Benjamin Franklin* [1817–1879] Rare forms of fish in Kansas. Trans. Kansas Acad. Sci., 1875, **3**, 22. *Ibid.*, reprint of 1896, 121–122. 1875.1

Refers to teeth of Campodus and to an undetermined snout fish.

Mudge, *George P.* Male dogfish with an abnormal external genital apparatus. Journ. Anat. Physiol. London, 1899, **34**, 3. 1899.1

—— Exhibition of and remarks upon a dogfish with abnormal viscera. Proc. Zool. Soc. London, 1905, pt. 2, 490. 1905.1

—— An abnormal dogfish (*Scyllium canicula*) Zool. Anz., 1906, **30**, 278–280. fig. 1906.1

Stomach everted into pharyngeal cavity.

Mühlen, *Max von zur. See* **Zur Mühlen,** *Max von.*

Mühlens, *Peter.* Zwei Fälle von Verletzung durch einen Hornhecht. Arch. Schiffs-Tropenhyg., Leipzig, 1904, **8**, 25–26. 1904.1

Müllauer, *Marie.* Unsere Fische im Seewasseraquarium. Natur u. Haus, Dresden, 1901, **10**, 65–69. 1901.1

Müllegger, *S.* Direkte Ueberführung von Stichlingen in Seewasser. Blätt. Aquar.-Terrar. Kunde, 1906, **17**, 320–321. 1906.1

—— Das Seewasseraquarium, seine Einrichtung und Pflege. I. Teil. Braunschweig, 1909. 39 p. pl. & 2 figs. 16° (Bibliothek Aquar.-Terrar. Kunde, Heft 19) 1909.1

—— Das Seewasseraquarium, Tiere und Pflanzen. II. Teil. Braunschweig, 1910. 43 p. pl. 24 figs. 16° (Bibliothek Aquar.-Terrar. Kunde, Heft 20) 1910.1

—— Ueber das Photographieren von Wassertieren, u. s. w. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 252–253; 295. 3 figs. 1912.1

—— Flachfische im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 85–87. 9 figs. 1913.1

—— Steinpicker, Leierfisch, Seeteufel, drei Fische fürs Seewasseraquarium. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 17–20. 4 figs. 1913.2

Müllenhoff, *Karl.* Die Ortsbewegung der Tiere. Andreas Realgym. zu Berlin. Wiss. Beilage zu Programm, Ostern, 1885. 1885.1

Müller, —— Pro *Lucio esoce.* Mitth. Fischereiwesen, München, 1877, 2. Jahrg., 57–59; 64–65; 72–74. 1877.1

—— Ueber Anbau von Schilf, Rohr und Binsen, zum Schutze der Ufer von Gewässern und zur Vermehrung des Fischbestandes in denselben. Ber. Fischerei Ver. Prov. Preussen, 1877, no. 2, 14–18. 1877.2

—— Zucht der Sommerlaichfische mit anklebenden Eiern. Circul. Deutsch. Fischerei Ver., 1879, no. 1, 16. — Isis (Russ), 1879, 4. Jahrg., 331. 1879.1

Müller, *August.* Beobachtungen zur vergleichenden Anatomie der Wirbelsäule. Arch. Anat., 1853, 260–316. 1853.1

Discusses the homologies of the ribs and intermuscular bones of fishes, the ear bones of Cyprinidæ, etc.

—— Note sur le développement des lamproies. Ann. Sci. Nat. (*Zool.*), 1856, 4. sér. **5**, 375–388. 1856.1

—— Ueber die Entwickelung der Neunaugen. Arch. Anat., 1856, 323–339. — Ann. Mag. Nat. Hist., 2. ser. **18**, 298–301. 1856.2

—— Ueber den Zustand unserer Fischereien und über die Mittel zu ihrer Verbesserung. Zeitschr. Acclim. Berlin, 1858, **1**, 203–220. 1858.1

—— Ueber die Befruchtungserscheinungen im Eie der Neunaugen. Schrift. Phys.-ökon. Ges. Königsberg, 1864, 5. Jahrg., 109–119. 1864.1

—— Ueber die Fortpflanzung der Aale. Schrift. Naturf. Ges. Danzig, 1874, n. s. **3**, 3. 1874.1

—— Die künstliche Befruchtung des Karpfenrogens. Oesterr.-ungar. Fischerei Zeitg., 1880, 116. 1880.1

Müller, *Carl.* Der Fang und die Verarbeitung der Sardinen. Himmel u. Erde, 1909, 21. Jahrg., 546–553. 1909.1

—— Die Fortpflanzung des Aals. Himmel u. Erde, 1911, 23. Jahrg., 529–532. 1911.1

Müller, *Erik.* Studien über Neuroglia. Arch. Mikr. Anat., 1899, **55**, 11–62. 3 pls. & fig. 1899.1

—— Ein Beitrag zur Frage der Zelluloseverdauung im Darmkanal. Arch. Gesamt. Physiol., 1901, **83**. 1901.1

—— Die Brustflosse der Selachier. Ein Beitrag zu den Extremitätentheorien. Anat. Hefte, 1909, **39**, pt. 1, 469–601. 20 pls. 1909.1

—— Untersuchungen über die Muskeln und Nerven der Brustflosse und die Körperwand bei *Acanthias vulgaris.* Anat. Hefte, 1911, **43**, 1–147. 26 pls. & 11 figs. 1911.1

—— Untersuchungen über ein faseriges Stützgewebe bei den Embryonen von *Acanthias vulgaris.* Handl. Svensk. Vet. Akad., 1912, **40**, no. 6, 1–18. 4 pls. 1912.1

—— Untersuchungen über die Anatomie und Entwicklung des peripheren Nervensystems bei den Selachiern. Arch. Mikr. Anat., 1913, **81**, 1. Abth., 325–376. 9 pls. 1913.1

Müller, *Friedrich W.* Ueber die Entwicklung und morphologische Bedeutung der Pseudobranchie und ihrer Umgebung bei *Lepidosteus osseus.* Arch. Mikr. Anat., 1897, **49**, 463–503. 1897.1

—— Schwimmblase und Lunge. Naturw. Wochenschr., 1911, n. s. **10**, 585–588. 1911.1

—— Ueber die "akzessorischen Atmungsorgane der Knochenfische" u. s. w. Naturw. Wochenschr., 1911, n. s. **10**, 438–440. 1911.2

Ausführliches Referat der gleichnamigen Arbeit von M. Rauther, 1910.

Müller, *Fritz.* Der Minhocao. Zool. Garten, 1877, 18. Jahrg., 298–302. 1877.1

Müller, *G. W.* Neue Cypridiniden. Zool. Jahrb. (*Abth. Syst.*), 1891, **5**. 1891.1

—— Ueber das Vorkommen des Sternrochens an der Rügenschen Küste. Mitt. Nat. Ver. Neuvorpommern-Rügen, 1909, **40**, 61. 1909.1

Müller, *Heinrich.* Ueber den nervösen Follikel-Apparat der Zitterrochen und die sogenannten Schleimcanäle der Knorpelfische. Verh. Physik-Med. Ges. Würzburg, 1852, **2**, 134–162. 1852.1

—— Bewegung der Iris an ausgeschnittenen Fischaugen. Verh. Phys.-Med. Ges. Würzburg (*Sitzber.*), 1860, **10**, l–li. 1860.1

—— Ueber die Einwirkung der Wärme auf die Pupille des Aals. Würzburg. Naturw. Zeitschr., 1861, **2**, 133–139. 1861.1

—— Bemerkungen über die Epidermis von Petromyzon. Würzburg. Naturw. Zeitschr., 1864, **5**, 43–52. 1864.1

—— Ueber die Epidermis von Petromyzon. Würzburg. Naturw. Zeitschr., 1864, **5**, 43–53. 1864.2

Müller, *J. T.* Einleitung in die ökonomische und physikalische Bücherkunde und in die damit verbundenen Wissenschaften bis auf die neuesten Zeiten. 2 vols. in 3. Leipzig, 1780–84. 8°. 1780.1

Müller, *(Baron) Johann Wilhelm von* [1824–1866] Reisen in den Vereinigten Staaten, Canada und Mexico. 3 vols. Leipzig, 1864–65. pls. figs. 1864.1

List of fishes from Mexico, vol. iii, p. 623–643.

Müller, *Johann Wilhelm Anton Albrecht.* Ueber das Urogenitalsystem des Amphioxus und der Cyclostomen. Jena. Zeitschr. Naturw., 1875, **9**, 94–129. 2 pls. 1875.1

Müller, *Johannes* [1801–1858] For biographical notices, *see* Du Bois-Reymond, E. H. Gedächtnissrede auf Johannes Müller. Abh. Akad. Wiss. Berlin, 1859. — Bischoff, T. L. W. Johannes Müller und sein Verhältniss zum jetzigen Physiologie. München, 1858. — Nussbaum, M. Johannes Müller, der Begründer der neuen Biologie. Naturw. Rundschau, 1897, **12**, 267–271. — Hadley, P. B. Johannes Müller. Pop. Sci. Monthly, 1908, 72, 513–533.

—— Ueber den körnigen Bau der Hoden bei mehreren Fischen, insbesondere bei Rochen und Haien. Zeitschr. Physiol. (Tiedemann), 1831, **4**, 106–112. 1831.1

—— Vergleichende Anatomie der Myxinoiden, der Cyclostomen mit durchbohrtem Gaumen. 1834–45. 1834.1

i. Osteologie und Myologie. Abh. Akad. Wiss. Berlin, 1834, 65–340. 9 pls.

ii. Ueber den eigenthümlichen Bau des Gehörorganes bei den Cyclostomen, mit Bemerkungen über die ungleiche Ausbildung der Sinnesorgane bei den Myxinoiden. *Ibid.*, 1837, 15–48. Abstract in Ber. Akad. Wiss. Berlin, 1836, 31–32.

iii. Vergleichende Neurologie der Myxinoiden. Abh. Akad. Wiss. Berlin, 1838, 171–252. Abstract in Ber. Akad. Wiss. Berlin, 1838, 16–20.

iv. Ueber das Gefäss-System. Abh. Akad. Wiss. Berlin, 1839, 175–304. Abstract in Ber. Akad. Wiss. Berlin, 1839, 184–186.

v. Untersuchungen über die Eingeweide der Fische. Abh. Akad. Wiss. Berlin, 1843, 109–170. 5 pls.

—— Nachtrag zu der Abhandlung der Herren Eschricht und Müller über die Wundernetze an der Leber des Thunfisches. Abh. Akad. Wiss. Berlin, 1835, 325–328. 1835.1

—— Ueber die Genesis der Wirbel bei den Fischen. Mitt. Ges. Naturf. Freunde Berlin, 1837, 25–32. 1837.1

—— Bemerkungen über den *Amphioxus lanceolatus* Yarrell. Ber. Akad. Wiss. Berlin, 1839, 197–200. 1839.1

—— Ueber die Natur der Nebenkiemen bei den Knochenfischen. Ber. Akad. Wiss. Berlin, 1839, 186–197. 1839.2

—— Ueber die Plagiostomen-Gattungen; Syrrhina, Trigonoptera. Mitt. Ges. Naturf. Freunde Berlin, 1839. 1839.3

—— Untersuchung über den glatten Hai des Aristoteles. Ber. Akad. Wiss. Berlin, 1839, 49–52. 1839.4

Galeus lævis Stenonis identified as *Mustelus lævis* L.

—— Weitere Mittheilungen über die Wundernetze zu dem comparativen Theil der vergleichenden Anatomie der Myxinoiden. Ber. Akad. Wiss. Berlin, 1839, 272–287. 1839.5

—— Fortsetzung der Untersuchungen über den glatten Hai des Aristoteles, zunächst über den *Galeus lævis* Sten. Ber. Akad. Wiss. Berlin, 1840, 171–175. 1840.1

—— Sur l'organisation et les fonctions des pseudobranchies et des plexus vasculaires des poissons. C. R. Acad. Sci. Paris, 1840, **10**, 422–423. — Rev. Zool., 1840, 88. 1840.2

—— Ueber die Choroidaldrüse im Auge der Fische. Notizen (Froriep), 1840, **13**, 279–280. 1840.3

—— Ueber Nebenkiemen und Wundernetze der Myxinoiden. Arch. Anat. Physiol. (Müller), 1840, 101. 1840.4

—— Fortgesetzte Untersuchungen über die Pseudobranchien. Arch. Anat. Physiol. (Müller), 1841, 263–277. 1841.1

—— Mikroskopische Untersuchungen über den Bau und die Lebenserscheinungen des *Branchiostoma lubricum* Costa, *Amphioxus lanceolatus* Yarrell. Monatsber. Akad. Wiss. Berlin, 1841,

Müller, *J.*
396–411. — Abh. Akad. Wiss. Berlin, 1842, 79–116. 1841.2

—— Nachtrag zu der Abhandlung über die Nebenkiemen. Ber. Akad. Wiss. Berlin, 1841, 86–98. 1841.3

—— Ueber Lungen und Schwimmblasen. Arch. Anat. Physiol. (Müller), 1841, 223–228. 1841.4

—— Beobachtung über die Geschlechtsorgane der Plagiostomen, mit Anwendung auf eine Stelle in Aristoteles' Naturgeschichte. Arch. Anat. Physiol. (Müller), 1842, 414–417. — Ber. Akad. Wiss. Berlin, 1842, 174–177. 1842.1

—— Beobachtungen über die Schwimmblase der Fische, mit Bezug auf einige neue Fischgattungen. Ber. Akad. Wiss. Berlin, 1842, 177–186; 202–210. — Arch. Anat. Physiol. (Müller), 1842, 307–329. 1842.2

—— Ueber den glatten Hai des Aristoteles und über die Verschiedenheiten unter den Haifischen und Rochen in der Entwickelung des Eies. Abh. Akad. Wiss. Berlin 1840 (1842), 187–258. Also separate; Berlin, 1842. 73 p. 6 pls. 4°. 1842.3

—— Ueber parasitische Bildungen. I. Ueber eine eigenthümliche Krankheit der Schwimmblase beim Dorsch, *Gadus callarias*. Arch. Anat. Physiol. (Müller), 1842, 193–198. 1842.4

—— Beiträge zur Kenntniss der natürlichen Familien der Fische. Arch. Naturgesch., 1843, 9. Jahrg., pt. 1, 292–330; 381–384. 1843.1

—— Beiträge zur Kenntniss der natürlichen Familien der Knochenfische. Ber. Akad. Wiss. Berlin, 1843, 211–218. 1843.2

—— Untersuchungen über die Eingeweide der Fische; Schluss der vergleichenden Anatomie der Myxinoiden. Abh. Akad. Wiss. Berlin, 1843, 109–170. 1843.3

—— Bemerkungen über die Cyprinodonten. Monatsber. Verh. Ges. Erdkunde Berlin, 1844, 35–36. — Ber. Akad. Wiss. Berlin, 1844, 35–37. 1844.1

—— Ueber den Bau und die Grenzen der Ganoiden und über das natürliche System der Fische. Abh. Akad. Wiss. Berlin, 1844, 117–216. — Ber. Akad. Wiss. Berlin, 1844, 416–422. — Arch. Naturgesch., 1845, 11. Jahrg., **1**, 91–142. *Ibid.*, 1846, 12. Jahrg., **1**, 190. — Ann. Sci. Nat. (*Zool.*), 3. sér. **4**, 5–53. — Scient. Mem. (Taylor), **4**, 499–542. — Atti Scienz. Ital., 1845, 686–713. 1844.2

"Especially important is Müller's classical work, 'Ueber den Bau und die Grenzen der Ganoiden.' In this he showed some of the real fundamental characters of that group of archaic fishes, and took from it the most heterogeneous of the elements left in it by Agassiz. To Müller we also owe the first proper definition of the Leptocardii and the Cyclostomata, and, in association with Dr. J. Henle, Müller has given us one of the best general accounts of the sharks ('Systematische Beschriebungen der Plagiostomen')" — **Dean**, *B.* History of ichthyology, in Jordan's Guide to the study of fishes, vol. i, p. 405. 1905.

—— Nachtrag zur Abhandlung: "Ueber den Bau der Ganoiden." Ber. Akad. Wiss. Berlin, 1845, 33–35. *Ibid.*, 1846, 67–85. — Arch. Naturgesch., 12. Jahrg., 190–208. — Scient. Mem. (Taylor), **4**, 543–558. 1845.1

—— Physiologische Bemerkungen über die Statik der Fische. Arch. Anat. Physiol. (Müller), 1845, 456–464. — Ann. Mag. Nat. Hist., **18**, 69. 1845.2

—— Ueber die Wimperbewegung in den Harnkanälchen der Rochen und den Kiemen der Ascidien. Anmerkung zu Kölliker: "Ueber Flimmerbewegungen in den Primordialnieren." Arch. Anat. Physiol. (Müller), 1845, 520. 1845.3

—— Ueber Eigenthümlichkeiten in dem Baue des Herzens gewisser Fische. Gelehrte Anz. München, 1845, **20**, 193–195. — Bull. Akad. Wiss. München, 1845, 33–35. 1845.4

—— Fernere Bemerkungen über den Bau der Ganoiden. Arch. Naturgesch., 1846, 12. Jahrg., **1**, 190–208. 1846.1

—— On the structure of the ganoids. Scient. Mem., 1846, **4**, 499–558. 1846.2

—— Fossile Fische (In Reise in den äussersten Norden und Osten Sibiriens während der Jahre 1843–1844, herausgegeben von A. Th. v. Middendorff, vol. i, 259–274. pl. St. Petersburg, 1847) 1847.1

—— Ergebniss einer Revision einer Reihe fossiler Fischgattungen. Zeitschr. Deutsch. Geol. Ges. Berlin, 1850, **2**, 65. 1850.1

—— Ueber zahlreiche Porencanäle in der Eicapsel der Fische. Ber. Akad. Wiss. Berlin, 1854, 164–168. — Arch. Anat. Physiol. (Müller), 1854, 186–190. 1854.1

—— Ueber die Fische, welche Töne von sich geben und die Entstehung dieser Töne. Arch. Anat. Physiol. (Müller), 1857, 249–279. 1857.1

Review by J. van der Hoeven in Album der Natuur (Wetensch. bijblad), 1857, 75–76.

—— Gesammelte und hinterlassene Schriften. Leipzig, 1872. 1872.1

Müller, *Johannes,* & **Agassiz,** *Louis.* Notice sur les vertèbres des squales vivans et fossiles. Neuchâtel, 1843. 4°. 1843.1

Müller, *Johannes,* & **Ermann,** *Adolf Georg. See* **Ermann** & **Müller.**

Müller, *Johannes,* & **Eschricht,** *D. F.* Ueber die arteriösen und venösen Wundernetze an der Leber, und einen merkwürdigen Bau dieses Organes beim Thunfische. Abh. Akad. Wiss. Berlin, 1835, 1–32. 1835.1

Müller, *Johannes,* & **Henle,** *Friedrich Gustav Jakob.* Gattungen der Haifische und Rochen, nach ihrer Arbeit: "Ueber die Naturgeschichte der Knorpelfische." Ber. Akad. Wiss. Berlin, 1837, 111–118. 1837.1

—— Ueber die Gattungen der Plagiostomen. Arch. Naturgesch., 1837, 3. Jahrg., 394–401; 434. *Ibid.*, 1838, 4. Jahrg., 83–85. 1837.2

—— On the generic characters of cartilaginous fishes, with descriptions of new genera. Mag. Nat. Hist., 1838, **2**, 33–37; 88–91. — Arch. Anat. (Müller), 1842, 414–417. 1838.1

—— Sur l'histoire naturelle des poissons cartilagineux. L'Institut, 1838, **6**, 66. 1838.2

—— Systematische Beschreibung der Plagiostomen. Berlin, 1838–41. xxii, 200 p. 60 pls. fol. 1841.1

Portions of this work were printed in 1838 and 1839, according to dates on paper wrappers.

This still remains a classical work on recent elasmobranchs. No more extensive treatise on sharks, rays and skates has appeared until the publication of S. Garman's memoir on the Plagiostomia in 1913.

Müller, *Johannes,* & **Troschel,** *Franz Hermann.* Synopsis generum et specierum familiæ Characinorum. Arch. Naturgesch., 1844, 10. Jahrg., **1**, 81–98. 1844.1

—— Horæ ichthyologicæ. Beschreibung und Abbildung neuer Fische; die Familie Characinen. 3 pts. in 2 vols. Berlin, 1845. 16 pls. 1845.1

—— Reisen in British-Guiana in den Jahren 1840–1844 (Im Auftrag Sr. Majestat des Königs von Preussen ausgeführt von Richard Schomburgk. Versuch einer Fauna und Flora von British-Guiana [Fische] vol. iii, p. 618–644 [Berlin] 1848. 1848.1

Müller, *Johannes (librarian)* Die wissenschaftlichen Vereine und Gesellschaften Deutschlands im neunzehnten Jahrhundert. Bibliographie ihrer Veröffentlichungen seit ihrer Begründung bis auf die Gegenwart. Berlin, 1883–87. xxi, 878 p. 4°. 1883.1

Müller, *Karl.* Der Hering. Natur, 1860, **9**, 233–236; 241–244; 249–251; 269–272. 1860.1

—— Die fliegenden Fische. Natur, 1873, **22**, 129–132. 1873.1

—— Die Fischerei des russischen Nordens. Natur, 1874, **23**, 259–262; 270–272. 1874.1

Müller, *Otto Frederik.* Zoologiæ Danicæ prodromus, seu animalium Daniæ et Norvegiæ indigenarum characteres, nomina, et synonyma imprimis popularium. Havniæ, 1776. xxxii, 282 p. 8°. 1776.1

Contains a list of fishes from Denmark.

—— Zoologia Danica, seu animalium Daniæ et Norvegiæ rariorum ac minus notorum (icones) descriptiones et historia. 4 vols. Havniæ, 1788–1806. 40 pls. fol. 1788.1

Müller, *Philip Ludwig Statius* [1725–1776] Des Ritters Carl von Linné vollständiges Natursystem nach der 12ten Ausgabe, und nach Anleitung Houttynischen Werkes, mit einer ausführlichen Erklärung ausgefertigt. 6 vols. Nürnberg, 1773–76. 8°. 1773.1

Müller, *Salomon,* & **Schlegel,** *Hermann.* Beschrijving van een' nieuwen zoetwater-visch van Borneo, *Osteoglossum formosum.* Verh. Natuur. Ges. Leiden, 1839–44, **2**, 1–8. pl. 1839.1

Müller, *T.* Die Züchtung der *Chondrostoma nasus.* Circul. Deutsch. Fischerei Ver., 1879, no. 4, 137. — Isis (Russ), 1879, 4. Jahrg., 330–331. 1879.1

—— Etwas über die Aufzucht von Forellen. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 397–398. — Oesterr.-ungar. Fischerei Zeitg., 1880, 170. 1880.1

Müller, *Wilhelm.* Ueber die hypobranchialrinne der Tunikaten und deren Vorhandensein bei Amphioxus und den Cyclostomen. Jena. Zeitschr. Naturw., 1873, **7**, 327–332. 1873.1

—— Ueber die Persistenz der Urniere bei *Myxine glutinosa.* Jena. Zeitschr. Naturw., 1873, **7**, 321–326. 1873.2

—— Das uro-genital System des Amphioxus und der Cyclostomen. Jena. Zeitschr. Naturw., 1875, **9**, 94–129. 1875.1

—— Ueber die Stammesentwicklung des Sehorgans der Wirbelthiere (In Braune, C. W. Beiträge zur Anatomie und Physiologie als Festgab Carl Ludwig, etc. 2. Heft. Leipzig, 1875) 1875.2

—— Ueber die Entwickelung und morphologische Bedeutung der Pseudobranchie und ihrer Umgebung bei *Lepidosteus osseus.* Arch. Mikr. Anat., 1897, **49**, 463–502. 2 pls. 1897.1

Münch, —— Zur Bewertung des Planktons. Fischerei Zeitg. Neudamm, 1911, **14**, 126. 1911.1

Angaben über ein Exemplar von *Abramis brama* mit zugewachsener Mundspalte, desgleichen über einen dreisömmrigen *Cyprinus carpio* mit fast verwachsener Mundöffnung.

Münster, *Georg* (*Graf zu*) [1776–1844] Ausgezeichnete fossile Fischzähne aus dem Muschelkalk bei Bayreuth. Leipzig [?] 1830. pl. 1830.1

—— Intorno alcune scoperte geologiche [pesci nella Creta inferiore fosca di Münster] Ann. Storia Nat., 1830, **3**, 354–355. 1830.2

—— Sur quelques dents remarquables de poissons dans le Muschelkalk de Bayreuth. Bull. Soc. Géol. France, 1831, **1**, 172. 1831.1

—— Fossile Fische, Sepien, Krebse, *Monotis salinaria*, Saurier, Algauten von Oeningen, etc. Neues Jahrb. Mineral., 1834, 42–43. 1834.1

—— Knochenhöhle bei Rabenstein, Nathosaurus im Muschelkalk, Fische (Saurichthys und Hai) im Muschelkalk, Undina, Caturus, etc., von Kehlheim. Neues Jahrb. Mineral., 1834, 538–542. 1834.2

Mittleres Juragebilde und dessen Versteinerungen bei Hildesheim; Fische in Muschelkalk und Kreide, etc. Neues Jahrb. Mineral., 1835, 330–334. 1835.1

—— Capitosaurus in Keupersandstein; *Gyrodus multidens* in Jurakalk; achte Belonostomus-Art; Lebias und Cyprinus in Braunkohle im Fichtelgebirge, etc. Neues Jahrb. Mineral., 1836, 580–583. 1836.1

—— Ueber einige merkwürdige Fische aus dem Kupferschiefer und dem Muschelkalk. Beiträge zur Petrefacten-Kunde, 1839, 1. Heft, 114–121. figs. 1839.1

—— *Gyrodus gracilis* aus den Jura-Kalkschiefern von Kelheim. Beiträge zur Petrefacten-Kunde, 1841, 3. Heft, 128–129. fig. 1841.1

—— Ueber eine neue Art Myriacanthus Ag. im oberen Jura-Kalk. Beiträge zur Petrefacten-Kunde, 1841, 3. Heft, 127–128. fig. 1841.2

—— Ueber einige Placoïden im Kupferschiefer zu Richelsdorf. Beiträge zur Petrefacten-Kunde, 1841, 3. Heft, 122–126. 1841.3

—— Beschreibung einiger fossilen Fischzähne aus dem Tertiär-Becken von Wien. Beiträge zur Petrefacten-Kunde, 1842, 5. Heft, 65–69. 1842.1

—— Beschreibung einiger neuen Fische aus den lithographischen Schiefern von Bayern. Beiträge zur Petrefacten-Kunde, 1842, 5. Heft, 55–64. figs. 1842.2

Species are described of the following genera: Scrobodus, Cœlacanthus, Æthalion, Thaumas.

—— Beschreibung einiger neuen Fische aus der Jura-Formation von Bayern und Württemberg. Beiträge zur Petrefacten-Kunde, 1843, 6. Heft, 53–56. figs. 1843.1

New species of Thaumas and Notidanus are described.

—— Nachtrag zu der Beschreibung einiger merkwürdigen Fische aus den Kupferschiefern im 5. Heft. Beiträge zur Petrefacten-Kunde, 1843, 6. Heft, 47–52. figs. 1843.2

—— Ueber die im Korallenkalk des Lindner Berges bei Hannover vorkommenden Ueberreste von Fischen, mit Beschreibung und Abbildung einiger neuen Arten. Beiträge zur Petrefacten-Kunde, 1846, 7. Heft, 36–50. 1846.1

—— Ueber einen in den tertiären Ablagerungen der Gegend von Magdeburg gefundenen neuen Fischzahn. Beiträge zur Petrefacten-Kunde, 1846, 7. Heft, 34–35. 1846.2

—— Ueber einige fossile Stachelschuppen der Gattung Raja. Beiträge zur Petrefacten-Kunde, 1846, 7. Heft, 32–33. fig. 1846.3

Münter, *Johann Andreas Heinrich August Julius.* Ueber den Häring der Pommerschen Küsten und die an denselben sich anschliessenden Industriezweige. Arch. Naturgesch, 1863, 29. Jahrg., **1**, 281–360. fig. 1863.1

—— Beitrag zur Kenntniss der Fauna der süssen und salzigen Gewässer Neuvorpommerns, Rügens und Hinterpommerns (Stralsunder und Stettiner Regierungsbezirk), vom national-ökonomischen Standpunkte aus beleuchtet. Circul. Deutsch. Fischerei Ver., 1871, no. 1, 10–18. 1871.1

—— Synoptisches Verzeichniss der unbedeutenderen und als Nahrungsmittel gebrauchsfähigen Fische des Stralsunder und Stettiner Regierungs-Bezirks. Circul. Deutsch. Fischerei Ver., 1871, no. 1, 18–19. 1871.2

—— Ueber die Geschlechtsverhältnisse der Aale. Mitth. Naturw. Ver. Neu-Vorpommern, Rügen, 1873–74, 5–6. Jahrg., 9. 1873.1

—— Ueber zwei an den Stränden Rügens vorgekommene Schwertfische (*Xiphias gladius* L.) Mitth. Naturw. Ver. Neu-Vorpommern, Rügen, 1876, 8. Jahrg., 39–44. 1876.1

—— Ueber einen bei *Clupea harengus* L. vorgekommenen Fall von Hermaphroditismus. Mitth. Naturw. Ver. Neu-Vorpommern, Rügen, 1877, 9. Jahrg., 108–177. fig. 1877.1

Muhl, *Karl. Mesonauta insignis* Gthr. (*Acara festica* Stdr.) und seine Zucht im Zimmeraquarium. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 890–893. fig. 1913.1

Muirhead, *G.* On the effect of temperature on the taking of salmon with rod and fly in the river Spey at Gordon Castle in the autumns of 1898, 1899, 1900, 1901. Trans. Roy. Soc. Edinburgh, 1903, pt. 3, 683–686. 4 pls. 1903.1

Mulder, *E.* Natuurlijk en kunstmatig phosphoresceren van visschen. Scheik. Verh. (Mulder), 1859, **2**, 360–370. — Notizen (Froriep), 1861, **1**, 353–360. — Nederl. Gasth. Ooglijd Versl. (Donders), **2**, 398–407. 1859.1

—— Note sur la phosphorescence naturelle et artificielle des poissons. Ann. Sci. Nat. (*Zool.*), 1861, 4. sér. **15**, 367. — Journ. Physiol., 1861, **4**, 234–241. 1861.1

Mulder, *Gerhard Johann.* Ueber Leberthran. Rept. Pharm., 1849, **3**, 231–234. 1849.1

Mulder, *J. F.* Catalogue of fossils from Birregurra. Geelong Natural., 1896, **5**, no. 3, 13–17. 1896.1
Some fossil fishes enumerated.

Mulertt, *Hugo.* Der Goldfisch und seiner Zucht. Stettin, 1892. illust. 8°. 1892.1

—— The goldfish and its systematic culture. New York, 1902. illust. 1902.1

[**Mullen,** *W.*] Rambles after sport, or travels and adventures in the Americas and at home. By "Oliver North" [*pseudon.*] London, 1874. 8°. 1874.1
Articles reprinted from the Field; including "Two days' fishing in Chile," p. 209–222.

Muller, *W. C.*, & **Rouffaer,** *G. P.* *See* **Rouffaer** & **Muller.**

Mulon, *P.* Réaction de vulpian au niveau des corps surrénaux des plagiostomes. C. R. Mém. Soc. Biol. Paris, 1903, **55**, 1156. 1903.1

—— Sur la corticale surrénale des téléostéens (Première note) C. R. Soc. Biol. Paris, 1914, **75**, 702–705. 1914.1
Histologie. Dissociations à l'état frais.

Mulsow, *K.* Karpfenerkrankungen im Frühjahr 1911. Allgem. Fischerei Zeitg., 1911, n. s. **26**, 244–246. 1911.1

—— Ein neuer Gehirnparasit des Karpfens [*Lentospora encephalica*, n. sp.] Allgem. Fischerei Zeitg., 1911, n. s. **26**, 483–485. 1911.2

—— Die Taumelkrankheiten der Salmoniden. Allgem. Fischerei Zeitg., 1911, n. s. **26**, 146–148. 1911.3

Mummery, *J. Howard.* Some points in the structure and development of dentine. Trans. Roy. Soc. London, 1893, **182**, 527–545. 1893.1

—— On the teeth of Echeneis. Trans. Odont. Soc. Great Britain, 1899, **31**, 62–80. 2 pls. 1899.1

Mundahl, *C. M.* Line fishing. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **7**, pt. 10. 1883.1

Mundula, *A.* La pesca nel compartimento marittimo di Ancona. Rivist. Mens. Pesca, Milano, 1909, **9**, 202–214. 1909.1

Munk, *Hermann.* Zur Anatomie und Physiologie der quergestreiften Muskelfaser der Wirbelthiere, mit Anschluss von Beobachtungen über die electrischen Organe der Fische. Nachricht. Georg-Augusts Univ. Göttingen, 1858, 1–14. 1858.1

Munro, *Martin,* & **Bill,** *John.* Herring fisheries of Scotland. Inverary, 1860. 4 p. 8°. 1860.1

Munro, *R. J.* The herring fisheries. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 9. 1883.1

Muntadas, *Federico.* Rapport sur l'incubation artificielle et l'élevage des salmonides à Piedra (Aragon, Espagne) Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 182–191. 1869.1

—— Rapport sur l'établissement de pisciculture pour l'élevage des salmonides à Piedra (Aragon, Espagne) Bull. Soc. Acclim. Paris, 1872, 2. ser. **9**, 409–419. 1872.1

—— De l'alimentation des alevins de salmonides à l'établissement central de pisciculture d'Espagne. Bull. Piscicult. Prat., 1888, **1**, 265–268. 1888.1

—— Report on the piscicultural establishment of Piedra, Aragon, Spain. Bull. U. S. Fish Comm. 1887 (1889), **7**, 211–215. — Trans. Amer. Fisheries Soc. 1892 (1893), 52–57. 1889.1

Munthe, *Henrik Wilhelm* [1860—] Om ett fynd af kolja i glaciallera vid Bellefors i Västergötland. Sverig. Geol. Undersökn., Stockholm, 1910, ser. C, no. 226, 8. 1910.1

Occurrence of Gadus remains in glacial clay.

Muntz, *E.*, & **Osborne,** *W. A.* *See* **Osborne & Muntz.**

Muratet, *L.*, & **Sabrazès,** *J.* *See* **Sabrazès & Muratet.**

Murchison, (*Sir*) *Roderick Impey* [1792–1871] On the bituminous schist and fossil fish of Seefeld in the Tyrol. Proc. Geol. Soc. London, 1826, **1**, 139–140. — Phil. Mag., **6**, 36–40. — Ann. Sci. Nat. (*Zool.*), **18**, 132. 1826.1

—— On the fishes of the Ludlow rocks, or upper beds of the Silurian system. Rept. Brit. Assoc. Adv. Sci., 7. meet., 1837, pt. 2, 91. 1837.1

—— On the recent discovery of fossil fishes (*Palæoniscus catopterus* Agassiz) in the New Red Sandstone of Tyrone, Ireland. Proc. Geol. Soc. London, 1838, **2**, 206–208. — Phil. Mag., London, 3. ser. **7**, 72. — Neues Jahrb. Mineral., 1836, 735. 1838.1

The species in question was afterwards figured by Sir Philip Grey Egerton (1858) and still later was referred to Dictyopyge by Dr. R. H. Traquair.

—— Fishes of the Old Red Sandstone. Rept. Brit. Assoc. Adv. Sci., 9. meet., 1839, pt. 2, 99. 1839.1

—— The Silurian system . . . with descriptions of the coal-fields and overlying formations. London, 1839. xxxii, 768 p. 53 pls. 4°. 1839.2

Fishes and shells of the Ludlow and Wenlock rocks, p. 605–608. The descriptions of scales of Thelodus and spines of Onchus are by L. Agassiz.

—— On the geological structure of the Alps. Quart. Journ. Geol. Soc. London, 1849, **5**, 198–199. 1849.1

Contains reference to fish-bearing slates of canton Glarus, Switzerland.

—— On some of the remains in the bone-bed of the upper Ludlow rocks. Quart. Journ. Geol. Soc. London, 1853, **9**, 16–17. 1853.1

Upper Silurian fish-remains are mentioned.

—— Note on the relative position of the strata, near Ludlow, containing the ichthyolites described by Sir P. Egerton. Quart. Journ. Geol. Soc. London, 1857, **13**, 290–291. 1857.1

—— On the Permian rocks of northeastern Bohemia. Quart. Journ. Geol. Soc. London, 1863, **19**, 297–306. 1863.1

Fish-remains from the Rothliegende are mentioned, p. 303–306.

Murdoch, *John.* Fish and fishing at Point Barrow, Arctic Alaska. Trans. Amer. Fisheries Soc. 1884 (1885), 111–115. 1885.1

—— Fishes (In Report of the International Polar expedition to point Barrow, Alaska, p. 129–132. Washington, D. C., 1885) 1885.2

—— Fundulus and fresh water. Science, 1912, n. s. **35**, 417. 1912.1

Murie, *James.* On the supposed arrest of development of the salmon when retained in fresh water. Proc. Zool. Soc. London, 1868, 247–254. pl. 1868.1

—— Additional memoranda as to irregularity in the growth of salmon. Proc. Zool. Soc. London, 1870, 30–50. pl. & figs. 1870.1

—— Our economic sea-fishes. Zoologist, 1897, 4. ser. **1**, 389–406. 1897.1

—— Report on the sea-fisheries and fishing industries of the Thames estuary. I. Kent and Essex sea-fisheries committee. London, 1903. 250 p. pl. figs. 8°. 1903.1

—— Flying-fish in Medway and Swale (Kent) Zoologist, 1905, 4. ser. **9**, 401–412. 4 figs. 1905.1

Migrations and food-habits of Exocœtus, p. 410–411.

—— Flying-fish near Ramsgate. Zoologist, 1906, 4. ser. **10**, 36–37. 1906.1

—— Sea-bream in Essex waters. Essex Naturalist, Stratford, 1906, **14**, 238–240. 1906.2

Murisier, *Paul.* Farben der Fische. Schweiz. Fischerei Zeitg., 1910, 18. Jahrg., 210–211. 1910.1

—— La furonculose de la truite et la dégénérescence de la musculature. Bull. Soc. Vaud. Sci. Nat., 1910, 5. sér. **46**, xi. 1910.2

—— Un hybride de nase (*Chondrostoma nasus* L.) et du blageon (*Squalius agassizii* Heck.) Bull. Soc. Vaud. Sci. Nat., 1911, 5. sér. **47**, xxiv. 1911.1

—— Note sur les pigments de l'alevin de truite (*Trutta lacustris* L.) Bull. Suisse Pêche Piscicult., 1911, **22**, 2–8. — Bull. Soc. Vaud. Sci. Nat., 1910, 5. sér. **40**, 433–443. 8 figs. 1911.2

—— L'influence de la lumière et de la chaleur sur la pigmentation cutanée des poissons, particulièrement en ce qui concerne le pigment mélanique. Bull. Soc. Vaud. Sci. Nat., 1912, 5. sér. **48**, lxxviii. 1912.1

—— La signification biologique de l'argenture des poissons. Bull. Soc. Vaud. Sci. Nat., 1915, 5. sér. **50** (Proc.-Verb.) 95–97. 1915.1

Adaptation à la vie pélagique.

Murphy, *J. J.* Der Fang eines Judenfisches [*Megalops thrissoides*] Oesterr.-ungar. Fischerei Zeitg., 1880, 37–38; 43–44. 1880.1

Murphy, *J. Mortimer* [**Mortimer Kerry,** *pseudon.*] The ichthyic fauna of northwestern America. Forest & Stream, 1874, **2**, 356–357. 1874.1

—— The ichthyic fauna of the northwest coast. Forest & Stream, 1874, **3**, 67; 80; 97. 1874.2

—— The Salmonidæ of the Pacific. Forest & Stream, 1874, **2**, 369–370. 1874.3

—— Fish of Vancouver island. Forest & Stream, 1877, **9**, 331. 1877.1

—— California salmon. Fish. Gazette, 1879, **3**, 303. 1879.1

Murphy, *Robert Cushman* [1887 —] A fistula in the dogfish. Science, 1912, n. s. **35**, 693. 1912.1

—— Concerning the occurrence of suckers (Echeneididæ) on Balistidæ. Copeia, 1914, no. 3, 1–2. 1914.1

—— Notes on pelagic fishes. Copeia, 1914, no. 6, 1–3. 1914.2

Murphy, *Robert Cushman,* & **Harper,** *Francis.* Ichthyological notes from Montauk, Long Island. Copeia, 1915, no. 23, 41–43. 1915.1

Murphy, *Robert Cushman,* & **Nichols,** *John Treadwell. See* **Nichols & Murphy.**

Murray, *Andrew* [1812–1878] On electrical fishes, with a description of a new species of Malapterurus (*M. beninensis*) from the Old Calabar river. Proc. Phys. Soc. Edinburgh, 1854, **1**, 20–21. *Ibid.*, **2**, 35–53; 379. pl. 1854.1

—— Description of a new species of Echeneis and of a new Lernæan of the genus Penella [*P. remoræ*] infesting the *Echeneis remora.* Edinburgh New Phil. Journ., 1856, n. s. **4**, 287–301. 1856.1

—— Notice of the capture of an enormous cycloid fish [*Stenolepis gigas* Ayres] in the bay of San Francisco. New Phil. Journ., 1860, **12**, 147. — Proc. Roy. Phys. Soc. London, 1863, **2**, 138. 1860.1

—— Note regarding the young stage of the sterlet [*Acipenser ruthenus*] Proc. Zool. Soc. London, 1871, 11–13. 1871.1

Murray, *C. H.* Young trout destroyed by mosquitoes. Bull. U. S. Fish Comm. 1885, **5**, 243. 1885.1

Murray, *G.* Inoculation of fishes with *Saprolegnia ferox.* Journ. Botany, 1885, 302. 1885.1

Murray, *Hugh,* **Wilson,** *James,* & **others.** India; historical and descriptive account of British India, from the most remote period to the present time. 3 vols. Edinburgh, 1840. 8°. 1840.1

Fishes, vol. iii, p. 99–105.

Murray, *J. C.,* & **Shutt,** *F. T. See* **Shutt** & **Murray.**

Murray, *James A.* [1865—] A contribution to the knowledge of the marine fauna of Kurrachee. Ann. Mag. Nat. Hist., 1884, 5. ser. **13**, 348–352. 1884.1

—— A new species of Zygæna [*Z. dissimilis*] from the Kurrachee harbour. Indian Ann. Mag. Nat. Sci., 1887, 90–92. — Ann. Mag. Nat. Hist., 5. ser. **20**, 304–305. 1887.1

—— Zahl und Grössenverhältnisse der Chromosomen bei *Lepidosiren paradoxa* Fitz. Anat. Anz., 1906, **29**, 203–208. 6 figs. 1906.1

Murray, (*Sir*) *John* [1841–1914] For biographical notice, *see* Shipley, A. E. Sir John Murray, K. C. B., 1841–1914. Proc. Roy. Soc. London, 1915, **91**, liv–lxii.

—— Preliminary report on vertebrates obtained in the cruise of H. M. S. "Challenger." Proc. Roy. Soc. London, 1876, **24**, 537–544. 1876.1

Murray, (*Sir*) *John,* & **Hjort,** *Johan.* The depths of the ocean; a general account of the modern science of oceanography based largely on the scientific results of the Norwegian steamer "Michael Sars" in the north Atlantic. London, 1912. xx, 821 p. illust. 8°. 1912.1

Chap. ix. Pelagic animal life. Chap. x. General biology.

Murray, (*Sir*) *John,* & **Tizard,** *Thomas Henry. See* **Tizard** & **Murray.**

Murray, *William.* Statistical evidence regarding the influence of artificial propagation upon the salmon of the American rivers. Proc. Roy. Soc. Edinburgh, 1903, **24**, 469–485. 1903.1

Murray-Aynsley, *C. E.* Another huge mahseer. Ind. Forester, Allahabad, 1910, **36**, 606–607. 1910.1

Murzajev, *B. B.* Ueber die Sterblichkeit unter den Fischen des oberen Sees in Reval [Text in Russian] Věstn. Obšč. Gigieny St. Petersb., 1909, **45**, 241–250. 1909.1

Muse, *Joseph E.* Notice of the appearance of fish and lizards in extraordinary circumstances. Amer. Journ. Sci., 1829, **16**, 41–44. 1829.1

Musgrave, *Anthony,* & **Hill,** *Richard.* Fishes and fishing. The fishes of Jamaica (In Handbook of Jamaica for 1881, p. 122–137. Jamaica, 1881. 8°) 1881.1

Muskens, *L. J. J.* Eene physiologische zoutsolutie voor zeedieren. Tijd. Nederl. Dierk. Ver., 1894, 2. ser. **4.** 1894.1

—— Zur Kenntniss der elektrischen Organe. Tijd. Nederl. Dierk. Ver., 1894, 2. ser. **4.** 1894.2

Musschenbroeck, *P. van.* Observation sur le poisson électrique de Surinam. Mém. Acad. Sci. Paris (*Hist.*), 1760, 60. 1760.1

Musy, *M.* Statistique sur la distribution des poissons dans les lacs et les cours d'eau du canton de Fribourg. Fribourg, 1880. 20 p. 8°. 1880.1

—— Un fossile [dent de Pycnodus] de la carrière de Lévy. Bull. Soc. Sci. Nat. Fribourg, 1904, **12**, 47–48. 1904.1

—— Un poisson fossile de la Molasse marine fribourgeoise (*Solea antiqua* H. v. Meyer) Communication préliminaire. Bull. Soc. Fribourg. Sci. Nat. 1913, **21**, 36. 1913.1

Muth, *J. P.* Der Thunfischfang bei Palermo. Zool. Garten, 1869, 10. Jahrg., 265–272. 1869.1

Myers, *George H.,* & **Trout,** *L. E. See* **Trout** & **Myers.**

Mynster, *William A.* The advancement of fish-culture. Proc. Central Fish-culture Soc., 1. ann. meet., Chicago, 1879, 38–45. 1879.1

—— Digestion and growth of trout. Forest & Stream, 1879, **13**, 925. 1879.2

—— Fish-fungus and its remedy. Forest & Stream, 1880, **13**, 966. 1880.1

—— Liver-fed fish. Forest & Stream, 1880, **14**, 105–106. 1880.2

—— Mode of treating fish with fungus. Forest & Stream, 1880, **13**, 1006. 1880.3

Myréen, *Oss.* Från Korpilaks. Fiskeritidskr. Finl., 1899, **8**, 218. 1899.1

N

N., *P.* Are fish more abundant in water containing lime? Scient. Amer., 1880, **43**, 328. 1880.1

N., *R. L.* Progress in fish-culture. Forest & Stream, 1879, **11**, 440. 1879.1

Naccari, *Fortunato Luigi* [1793–1860] Aggiunta all' ittiologia adriatica. Padova, 1822. 4°. 1822.1

—— Ittiologia adriatica, ossia catalogo de' pesci del golfo e lagune di Venezia. Giorn. Fisica Nat. Pavia, 1822, **5**, 325–340; 409–418. 1822.2

—— Aggiunta al catalogo dei pesci del golfo e delle lagune di Venezia. Giorn. Ital. Letteratura, 1823, no. 57, 188. 1823.1

—— Lettera al Sig. G. D. Nardo intorno alcuni pesci dell' Adriatico. Giorn. Sci. Litt. Soc. Ven., 1824, 35. 1824.1

Naccari, *Fortunato Luigi,* & **Nardo,** *Giovanni Domenico.* Carteggio ittiologico fra il Professore Naccari e G. D. Nardo. Treviso, 1824. 1824.1

Nachtrieb, *Henry F.* The lateral line system of *Polyodon spathula.* Science, 1902, n. s. **15**, 581–582. 1902.1

—— The "primitive pores" and the sensory ridges of the lateral line of *Polyodon spathula.* Science, 1908, n. s. **27**, 914–915. 1908.1

—— The primitive pores of *Polyodon spathula* (Walbaum) Journ. Exper. Zool. Philad., 1910, **9**, 455–468. 12 figs. 1910.1

—— The lateral line system of Polyodon. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 215–220. 4 figs. 1912.1

Nadault de Buffon, *Alexandre Henri. See* **Buffon,** *Alexandre Henri Nadault de.*

Nadmorski, —— Fische, Fischerei und Fischzucht in Ost- und Westpreussen [Text in Polish] Die Welt, Warsaw, 1882, 26. 1882.1

Naegeli, *L.,* & **Mächler,** *A.* Die Fischereiverhältnisse von Rapperswil. Historische Darstellung nach den akten des städtischen Archivs. Schweiz. Fischerei Zeitg., 1899, 7. Jahrg., Beilage-Bd. **8**, 13–28. 1899.1

Näs, *Jakob.* Sommarfisket i Munsala. Fiskeritidskr. Finl., 1895, **4**, 180–187. 1895.1

—— Vinterfisket i Munsala. Fiskeritidskr. Finl., 1895, **4**, 85–86. 1895.2

—— Från Munsala [fisket] Fiskeritidskr. Finl., 1897, **6**, 131. 1897.1

—— Vårfisket i Munsala. Fiskeritidskr. Finl., 1898, **7**, 95–97. 1898.1

—— Vår- och sommarfisket i Munsala. Fiskeritidskr. Finl., 1899, **8**, 193–195. 1899.1

—— Höst- och vinterfisket i Munsala. Fiskeritidskr. Finl., 1900, **9**, 66–67. 1900.1

—— Einiges über die Strassen der Fische im Meere [Text in Swedish] Fiskeritidskr. Finl., 1901, **10**, 82–85. 1901.1

Nakagawa, *H.* Notes on an Amphioxus obtained in Amakusa, Kyushyu. Annot. Zool. Japon., 1897, **1**, 125–132. 1897.1

Nakashima, *Eiichiro.* Notes on the totuava (*Cynoscion macdonaldi* Gilbert) Copeia, 1916, no. 37, 85–86. 1916.1

Nalepa, *Emil A.* Elektrische Fische. Mitth. Sect. Nat. Oesterreich. Tourist-Club, 1897, 9. Jahrg., 61–66. 1897.1

Nansen, *Fridtjof* [1861—] Foreløbig meddelelse om undersøgelser over centralnervesystemets histologiske bygning hos Ascidierne samt hos *Myxine glutinosa.* Bergens Museum Aarsber., 1885, 55–78. 1885.1

—— Preliminary communication on some investigations upon the histological structure of the central nervous system in the Ascidia and in *Myxine glutinosa* [Translated by W. S. Dallas] Ann. Mag. Nat. Hist., 1886, 5. ser. **18**, 209–226. 1886.1

Nansen, *F.*

—— A protandric hermaphrodite (*Myxine glutinosa* L.) amongst the vertebrates. Bergens Museum Aarsber., 1887, no. vii, 1–29. — Bull. Sci. Nord, 3. sér. **2**, 315–340. Abstracts in Journ. Roy. Micr. Soc. London, 1889, 188–189. — Zool. Anz., 1886, 676. 1887.1

—— Structure and combination of the histological elements of the central nervous system. Bergen, 1887. 1887.2

—— (*editor*) The Norwegian North Polar expedition, 1893–1896. Scientific results. 6 vols. London, 1900–05. 4°. 1904.1

Vol. v, no. 15. On dead water, etc., by V. Walfred Ekman. 152 p. 17 pls. [Printed June, 1904]

This paper furnishes the first scientific explanation of the alleged "ship-staying" power of the Remora, attributed to it by ancient tradition.

Nansen, *Fridtjof,* & **Helland-Hansen,** *Björn.* *See* **Helland-Hansen & Nansen.**

Nansouty, *M. de.* Les poissons voyageurs; saumons, aloses, anguilles. Paris, 1907. 16 p. figs. 12°. 1907.1

Napier, *Charles Ottley Groom.* Natural history rambles. Lakes and rivers London, 1879. 247 p. 8°. 1879.1

Chap. vi. Freshwater fishes. Chap. vii. Some of the typical rivers and their fisheries.

Nardo, *Giovanni Domenico* [1802–1877] Descrizione di un pesce raro [*Regalecus maculatus*] dell' Adriatico, con osservazioni ed aggiunte all' Adriatico ittiologia. Giorn. Fisica Nat. Pavia, 1824, **7**, 116–123. — Giorn. Ital. Letter., 1825, 178. — Bull. Sci. Nat. (Férussac), **7**, 127. 1824.1

—— Osservazioni ed aggiunte all' Adriaticæ ittiologia pubblicata dal Sign. Cav. F. L. Naccari. Giorn. Fisica Nat. Pavia, 1824, **7**, 222–234; 249–263. 1824.2

—— Risposta alla lettera del Sig. Naccari, contenente la descrizione de alcune specie di pesci. Giorn. Prov. Venete, 1824, no. 35. 1824.3

—— Prodromus observationum et disquisitionum Adriaticæ ichthyologiæ. Isis (Oken), 1826, 473–488. — Giorn. Fisica Nat. Pavia, 1827, **10**, 22. 1826.1

—— De Proctostego, novo piscium genere specimen ichthyologicum anatomicum. Patavii, 1827. 17 p. pl. 4°. Abstract in Poligrafo, 1831, **5**, 55–61. 1827.1

—— Estratto di una memoria ittiologica inedita [sopra *Mola aspera, M. planci, M. hispida, Lepadogaster elegans, L. piger*] Giorn. Fisica Nat. Pavia, 1827, **10**, 102–105. — Bull. Sci. Nat. (Férussac), **13**, 437–438. 1827.2

—— Osservazioni circa il *Balistes capriscus.* Giorn. Fisica Nat. Pavia, 1827, **10**, 212–213. — Bull. Sci. Nat. (Férussac), 1828, **15**, 166–167. 1827.3

—— Osservazioni sull' Alausa cristata e non cristata di Rondelezio, e sul di lui Pholide. Giorn. Fisica Nat. Pavia, 1827, **10**, 210–212. — Bull. Sci. Nat. (Férussac), **15**, 165–167. 1827.4

—— Eine neue Art von *Lepadogaster* (*L. piger*) Isis (Oken), 1833, 548–549. 1833.1

Annotazioni ai quattro pesci nuovi pubblicati nel "Prodromus Adriaticæ ichthyologiæ," col nome *Leptosoma atrum, L. piger,* etc.

—— De Skeponopodo, novo piscium genere, et de *Guebucu marcgravii,* specie illi cognata. Isis (Oken), 1833, 416–420. 1833.2

On the genera Skeponopodus and Guebucus.

—— Considerazioni sulla famiglia dei pesci Mola, e sui caratteri che li distinguono. Ann. Sci. Lombardo-Veneto, 1839, **10**, 105–112. — Rev. Zool., 1840, 29. 1839.1

—— Nuove osservazioni sul sistema cutaneo e sullo scheletro del Proctostego. Ann. Sci. Lombardo-Veneto, 1840, 5–6. 1840.1

—— Osservazioni sul *Lepadogaster piger,* e considerazioni sul posto che occupar dovrebbero i lepadogastri nel sistema naturale dei pesci. Ann. Sci. Lombardo-Veneto, 1840. 1840.2

—— Sopra un nuovo genere di Spongiali Vio. Ann. Sci. Lombardo-Veneto, 1840. 1840.3

Not seen; title from Bosgoed's "Bibliotheca ichthyologica," 1874.

—— Nota sopra uno smisurato individuo della specie *Mola aspera* Nardo, stato preso nelle vicinanze di Venezia. Atti R. Istit. Venet., 1841, **1**, 130. 1841.1

—— Osservazioni intorno alla struttura della cute degli Xiphias, e proposta per essi di una nuova famiglia distinta. Atti Sci. Ital., 1841, 357–358. 1841.2

—— Rapporto letto alla sezione di zoologia della seconda assemblea

degli scienziati italiani in Torino, sopra un pesce esistente nel Museo di Pavia, determinatosi come il *Lepidopus argenteus* Nardo, e considerazioni sui caratteri di questa specie. Atti Accad. Torino, 1841. 1841.3

Not seen; title from G. Cavanna's "Bibliografia italiana," 1880.

—— Rapporto sopra un pesce esistente nel Museo di Pavia, determinatosi come il *Lepidopus argireus* Cuv., e considerazioni sui caratteri di questa specie. Letto alla sessione di zoologia della seconda assemblea degli scienziati italiani nel Settembre 1840, e publicato per estratto negli Atti dell' assemblea stessa. Torino, 1841. 4°. 1841.4

Not seen; title from Bosgoed's "Bibliotheca ichthyologica," 1874.

—— Considerazioni sopra alcune nuove famiglie della sottoclasse dei lofobranchi e dei plettognati. Padova, 1842. 1842.1

—— Alcune osservazioni anatomiche comparative sull' intima struttura delle cartilagini in genere e specialmente di quelle dei selachi. Atti R. Istit. Veneto Sci., 1843, **2**, 330–333. 1843.1

—— Considerazione sopra alcune nuove famiglie de' Syngnathi e de' Plectognathi, e sui caratteri anatomici che le distinguono. Atti Sci. Ital., Padova, 1843, 244–245. 1843.2

—— Nuove osservazioni sul *Lepadogaster piger*, e considerazioni sul posto che occupar dovrebbero i lepadogastri nel sistema naturale de' pesci. Ann. Sci. Lombardo-Veneto, 1844, **13**, 3–8. 1844.1

—— Proposizione per la formazione di un nuovo genere di selachi, chiamato Caninoa o Caninotus, che costituirebbe una nuova sottofamiglia prossima ai Notidani. Ann. Sci. Lombardo-Veneto, 1844, **13**, 8–9. 1844.2

—— Sull' intima struttura della cute de' pesci comparativamente considerata, e sulle cause fisiologiche e fisico-chimiche della colorazione e scolorazione dei medesimi. Atti R. Istit. Veneto Sci., 1844, **3**, 297–299. — Mem. R. Istit. Veneto Sci., 1844, **5**, 243–272. 1844.3

—— Osservazioni anatomiche comparative sull' intima struttura delle cartilagini dei condrotterigi. Mem. R. Istit. Veneto Sci., 1845, **2**, 201–210. 1845.1

—— Lettera al principe C. L. Bonaparte relativa ad una specie di Acanthias, ed al *Tetrapterus belone* del Rafinesque. Atti Congr. Sci. Ital. Genova (*Sez. Zool.*), 1846. 1846.1

—— Osservazioni sulla esistenza dell' organo del gusto in alcune specie di cani marini. Atti R. Istit. Veneto Sci., 1846, **5**, 355–357. 1846.2

—— Sulla identità dei due generi Tetrapterus ed Histiophorus. Genova, 1846. 1846.3

—— Osservazioni sopra una nuova specie di Sphyrna. Venezia, 1847. 1847.1

—— Prospetto della fauna marina volgare del Venete estuario con cenni sulle principali specie commestibili dell' Adriatico, sulle Venete pesche, sulle valli, etc. Venezia, 1847. 4°. 1847.2

—— Sinonimia moderna delle specie registrate nell' opera inedita dell' Ab. Stefano Chiereghin intitolata: "Descrizione de' crostacei, de' testacei e de' pesci che abitano le lagune e golfo veneto rappresentati in figure à chiaro-scuro e colori." Venezia, 1847. 1847.3

—— Sull' esistenza dell' organo del gusto di alcune specie di cani marini. Mem. R. Istit. Veneto Sci., 1851, **4**, 109–113. 1851.1

—— Osservazioni sopra il lavoro del Professore Molin intitolato: "Monografia dell' *Acipenser ruthenus*." Atti R. Istit. Veneto Sci., 1852, 2. ser. **2**. Also separate; Venezia, 1853. 1852.1

—— Sunto di alcune osservazioni anatomiche sull' intima struttura della cute dei pesci comparativamente considerata, e sulle cause fisiologiche e fisicochimiche della loro colorazione e decolorazione. Mem. R. Istit. Veneto Sci., 1853, **5**. 1853.1

—— Prospetti sistematici degli animali delle provincie Venete et del mare Adriatico, e distinzione delle specie in gruppi relative alla loro geografia fisica. Venezia, 1860. 104 p. 8°. 1860.1

Pesci, parte 1, p. 22–128.

—— Osservazioni anatomiche contradditorie a quanto scrisse il Sig. Steenstrup nella sua "Nota sulla differenza fra i pesci ossie e cartilaginosi, guardati dal punto di vista delle loro squamme." Atti R. Istit. Veneto Sci., 1861, **7**, 883–887. 1861.1

—— Sulla coltura degli animali aquatici del Veneto dominio. Parte I. Ri-

Nardo, *G. D.*
guardante la piscicoltura ed i pesci di acqua dolce e della Veneta laguna, con note illustrative. Atti R. Istit. Veneto Sci., 1862, 3. ser. **8.** Also separate; Venezia, 1864. 8°. 1864.1

—— Nota sul vivajo di pesci marini nel lago dolce di Arquà, relativa allo scritto del Professore R. de Visiani. Atti R. Istit. Veneto Sci., 1865, **11,** 847–849. 1865.1

—— Relazione sopra un opuscolo di Giovanni Canestrini intitolata: "Note ittiologiche." Atti R. Istit. Veneto Sci., 1865, 3. ser. **11,** 139–145. 1865.2

—— Ancora sulla mortalità delle anguille; e specialmente su quella avvenuta nelle valli di Comacchio ne' mesi scorsi. Atti R. Istit. Veneto Sci., 1866, 3. ser. **12,** 1157–1164. 1866.1

—— Appendice alla relazione sulla straordinaria mortalità delle anguille avvenuta nello scorso mese nel Veneto estuario; e sul preteso tifo esantemico-contagioso, che si accusò come causa di mortalità in quegli animali, ora del tutto cessato, in alcuni valli privati del Comacchiese. Atti R. Istit. Veneto Sci., 1866, 3. ser. **12,** 984–987. 1866.2

—— Confortanti risultanze di alcuni studii sulla sospettata malattia delle anguille. Atti R. Istit. Veneto Sci., 1866, 3. ser. **12,** 893–897. 1866.3

—— Estratto della memoria del co. Nicolò Contarini sul *Macronychus quadrituberculatus* Müller. Comm. Fauna, Flora e Gea, 1869, 212. 1869.1

—— Descrizione dei due barche pescherеccie dette "Bragozza" e "Bragagna," e degli arnesi da pesca relativi, a seconda dei modelli eseguiti dal sig. A. Camuffo di Chioggia. Atti R. Istit. Veneto Sci., 1870, 3. ser. **15,** 1893–1905. 1870.1

—— Accenni relativi ai prodotti organici della Veneta laguna, all' agricoltura e alla pesca. Venezia, 1871. 1871.1

—— Nota sulla riproduzione delle anguille e sugli studi recenti che le dichiarano ermafrodite, accompagnata da due esemplari in alcool dimostranti in vario grado di sviluppo gli organi riproduttori. Atti R. Istit. Veneto, 1871, 4. ser. **1,** 658–662. 1871.2

—— La pesca del pesce ne' valli della Veneta laguna al tempo delle prime bufere invernali detto volgarmente Fraima, etc. Venezia, 1871. 8°. 1871.3

—— Cenni storico-critici sui lavori pubblicati nel nostro secolo che illustrano la storia naturale degli animali vertebrati della Veneta terraferma, e sulla condizione dello studio delle scienzie naturale nelle nostre provincie [relativa ai tentativi fatti nelle provincie Venete sulla piscicoltura e sulla propagazione artifiziale del pesce d' acqua dolce] Atti R. Istit. Veneto Sci., 1873, **3,** 1117–1125; 1251–1265; 1341–1376; 1955–1978; 2139–2158. 1873.1

—— Sulla etimologia de' nomi volgari che si danno alle varie specie di storioni [Acipenser] viventi nelle Venete acque, e particolarmente sull' Attilus di Plinio, detta comunemente ladano, che pescasi nel fiume Po. Atti R. Istit. Veneto Sci., 1873, 4. ser. **3,** 1766–1772. 1873.2

Nardo, *Giovanni Domenico,* & **Naccari,** *Fortunato Luigi. See* **Naccari & Nardo.**

Nares, *George S.* Narrative of a voyage to the Polar sea during 1875–76 in H. M. ships "Alert" and "Discovery." 2. ed. 2 vols. London, 1878. 1878.1

Fishes, vol. i, p. 19–20; 84. Vol. ii, p. 156. Ichthyology, by A. Günther, vol. ii, p. 218.

Nathan, *Marcel.* La cellule de Kupffer (cellule endothéliale des capillaires veineux du foie), ses réactions expérimentales et pathologiques. Journ. Anat. Physiol., Paris, 1908, **44,** 208–247; 271–327. 3 pls. & 16 figs. 1908.1

Nathusius-Orlowo, *G. von.* Besetzung der Gewässer mit Zandern. Circul. Deutsch. Fischerei Ver., 1878, no. 5, 122–123. 1878.1

Natoli, *R.* Il persico-sole nelle acque della Svizzera insubrica. Boll. Soc. Ticin. Sci. Nat., 1905, **2,** 28–33. 1905.1

Natterer, *Johann. Lepidosiren paradoxa,* eine neue Gattung aus der Familie der fischähnlichen Reptilien. Ann. Wien. Mus. Naturgesch., 1837, **2,** 165–170. Abstracts in Ann. Nat. Hist., **2,** 309. — Rev. Zool., 1838, 40. — Isis (Oken), 1838, 346–347. 1837.1

—— Johann Natterers Flussfische Brasiliens nach den Beobachtungen und Mittheilungen des Entdeckers beschrieben, von J. Heckel. Ann. Wien. Mus. Naturgesch., 1840, **2,** 325–470. 1840.1

Nau, *Bernhard Sebastian von.* Naturgeschichte der Lamprete des Rheins. Schrift. Ges. Naturf. Freunde Berlin, 1787, **7**, 466–470. 1787.1

—— Oekonomische Naturgeschichte der Fische in der Gegend um Mainz. Frankfurt-a-M., 1788. 8°. 1788.1

—— Ueber den heutigen Zustand der Fischerei in einigen Gegenden von Deutschland. Mainz, 1788. 8°. 1788.2

—— Bemerkungen zu Sander's "Beyträge zur Naturgeschichte der Fische im Rhein." Naturforscher, 1791, **25**, 24–34. 1791.1

Naudin, *Alfred.* Acclimatation du barbeau dans le Sig (Oued Mekerba) Bull. Soc. Centr. Aquicult. Pêche, 1907, **19**, 176–182. 1907.1

Naumann, *Oswald.* Untersuchungen über die physikalischen Eigenthümlichkeiten und die physiologischen Wirkungen des Leberthrans. Arch. Heilkunde, 1865, **6**, 536–556. 1865.1

Nava y Caveda, *Hilario.* Consideraciónes sobre la pesca del salmon en España y la legislación especial que debe regir dicha pesca. Anal. Soc. Españ. Hist. Nat., 1878, **7**, 285–342. 1878.1

Navarrete, *A.* Manual de ictiología marina, concretado á las especies alimenticias en las costas de España é islas Baleares. Madrid, 1900. xi, 275 p. 15 pls. & figs. 8°. 1900.1

Navozov, *N.* [Ein Beitrag zur Ichthyofauna des Bassins des Ural] Messager Commerce Poissons, 1912, **27**, 252–283. 1912.1

Nawratil, *J.* Die Nahrung der Karpfen. Oesterr.-ungar. Fischerei Zeitg., 1880, 277–279; 285–288. 1880.1

Nazarov, *Jakov.* Ueber den Zug der Acipenseriden vom Meer in den Uralfluss und zurück ins Meer [Text in Russian] Věst. Rybopromyšl. St. Petersb., 1901, **16**, 673–674. 1901.1

Neal, *Herbert Vincent* [1869—] A summary of studies on the segmentation of the nervous system in *Squalus acanthias:* a preliminary notice. Anat. Anz., 1896, **12**, 377–391. 6 figs. 1896.1

—— The development of the hypoglossus musculature in Petromyzon and Squalus. Anat. Anz., 1897, **13**, 441–463. figs. 1897.1

—— The problem of the vertebrate head. Journ. Compar. Neurol., 1898, **8**, 153–161. 2 figs. 1898.1

—— The segmentation of the nervous system in *Squalus acanthias;* a contribution to the morphology of the vertebrate head. Bull. Mus. Comp. Zool. Harv. Coll., 1898, **31**, 147–294. 9 pls. & figs. 1898.2

Review by C. F. W. McClure in Science, 1898, n. s. **5**, 260–261.

—— The early stages of development of ventral nerves in cyclostomes and selachians. Science, 1900, n. s. **11**, 250–251. 1900.1

—— The development of ventral nerves in Selachii. I. Spinal ventral nerves (In Mark Anniversary Volume, p. 291–313. 3 pls. New York, 1903) 1903.1

—— The histogenesis of the "transient" (Rohon-Beard) cells in selachian embryos. Science, 1911, n. s. **33**, 273. 1911.1

—— The morphology of the eye muscle nerves. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 204–214. 10 figs. 1912.1

—— Does Amphioxus eat with his left ear? Science, 1915, n. s. **41**, 437–438. 1915.1

Homologue of left spiracle is first transient gill cleft, mouth not homologous with craniote mouth (possibly with hypophysis)

—— Nerve and plasmodesma [in Squalus] Science, 1915, n. s. **41**, 435–436. 1915.2

Connection between neural tube and myotome secondary. First protoplasmic connections contain staining neurofibrils. Connection established by medullary neuroblasts.

—— Pre-otic somites in cyclostomes. Science, 1915, n. s. **41**, 437. 1915.3

Anterior head mesoderm completely segmented. No homologue of anterior somites (Platt) found.

Nedozhivin, *A. J.* Zur Entwicklungsgeschichte der Schwimmblase der *Clupea kessleri* [Text in Russian] Trd. Obšč. Jest., Saratov, 1912, **6**, pt. 1, 19–32. 3 pls. 1912.1

Nedozhivin, *A. J.*, & **Lebedintsev,** *A. See* **Lebedintsev** & **Nedozhivin.**

Nedozhivin, *A.*, & **Tichij,** *M.* Ein Beitrag zur Bestimmung des Alters von *Clupleonella caspica* typ. Eichw. Mater. Pozn. Russ. Rybolov, St. Petersburg, 1913, **2**, no. 6, 17–38. 3 pls. & 4 figs. 1913.1

Needham, *James George* [1868—] Food of brook trout [*Salmo fontinalis*] in Bone pond. Bull. N. Y. State Mus., 1903, **68**, 204–217. pl. 1903.1

Food stated to consist of species of Chironomidæ, Ephemeridæ and Trichoptera.

—— Report of the entomologic field station conducted at Old Forge, N. Y., in the summer of 1905. Bull. N. Y. State Mus., 1908, no. 124, 156–248. 29 pls. & 16 figs. 1908.1

Contains studies on food of fishes.

Needham, *James G.*, & **Lloyd,** *J. T.* The life of inland waters; an elementary textbook of freshwater biology for American students. New York, 1916. 438 p. illust. 8°. 1916.1

Neergaard-Møller, *E.*, & **Johansen,** *A. C.* *See* **Johansen** & **Neergaard-Møller.**

Nègre, *L.* Morphologie des pigmentophores de la peau des vertébrés et leurs rapports avec les cellules épidermiques. C. R. Mém. Soc. Biol. Paris, 1906, **60**, 26–28. 4 figs. 1906.1

Negri, *L. de.* La pêche et la société de pisciculture italienne. [n. p.] 1874. 56 p. 6 pls. 4°. 1874.1

Nehring, *A.* Notiz über einen colossalen Zahn von *Carcharias* [*Carcharodon*] *megalodon* aus dem Oligocän des Silberberges bei Helmstedt. Sitzber. Ver. Naturw. Braunschweig, 1878, 27. 1878.1

—— *Pelecus cultratus* (L.) von Rossiten auf der kurischen Nehrung. Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 250. 1904.1

—— Ueber die geographische Verbreitung der *Pelecus cultratus* L. in Deutschland. Sitzber. Ges. Naturf. Freunde Berlin, 1904, 43–45. 1904.2

—— Zur Nahrung des Zanders. Die Verbreitung des Stichlings (*Pelecus cultratus*) in Deutschland. Mitt. Deutsch. Seefischerei Ver., 1904, **20**, 132–133. 1904.3

Nehrkorn, *Adolf.* Zur Fortpflanzung des Wetterfisches (*Cobitis fossilis*) Zool. Garten, 1876, **17**, 148–149. 1876.1

—— Zur Aalfrage. Zool. Garten, 1880, **21**, 376. — Oester.-ungar. Fischerei Zeitg., 1880, 360. — Landw. Zeitg. Anz. Kassel, 1880, 2. Jahrg. 769. 1880.1

Neikert, *Ludwig*, & **Leiber,** *Adolf.* Ueber Bau und Entwicklung der weiblichen Geschlechtsorgane des *Amphioxus lanceolatus*. Zool. Jahrb. (*Morphol. Abth.*), 1903, **18**, 187–226. 5 pls. & 3 figs. 1903.1

Neill, *Brisbane A. C.* Climbing habits of the *Anabas scandens*. Ann. Mag. Nat. Hist., 1864, 3. ser. **13**, 523. 1864.1

Neill, *Patrick* [1776–1851] List of fishes found in the firth of Forth, and rivers and lakes near Edinburgh, with remarks. Mem. Wern. Nat. Hist. Soc. Edinburgh, 1808, **1**, 526–555. 1808.1

—— Account of a rare fish (*Sciœna aquila*) found in the Shetland seas. Edinburgh New Phil. Journ., 1826, **1**, 135–141. — Isis (Oken), 683. — Bull. Sci. Nat. (Férussac), **10**, 164. 1826.1

Neilsen, *Carl August,* & **Farnell,** *Frank.* *See* **Farnell** & **Neilsen.**

Nelis, *Charles,* & **Gehuchten,** *A. van.* *See* **Gehuchten** & **Nelis.**

Nelli, *Bindo.* Fossili miocenici dell' Appennino Aquilano. Boll. Soc. Geol. Ital., 1900, 19. anno, 381–418. pl. 1900.1

—— Fossili miocenici del Macigno di Porretta. Boll. Soc. Geol. Ital., 1903, **22**, 181–252. 4 pls. & 2 figs. 1903.1

Fossil fishes are mentioned.

Nelson, *Edward William* [1855—] A partial catalogue of the fishes of Illinois. Bull. Ill. Mus. Nat. Hist., 1876, **1**, 33–52. 1876.1

A valuable local faunal list.

—— Fisheries of Chicago and vicinity. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 783–800. fig. 1878.1

—— Fishes . . . with additional notes by T. H. Bean (In Report upon the natural history collections made in Alaska between . . . 1877 and 1881 by E. W. Nelson. Edited by H. W. Henshaw. Pt. iii. Washington, 1887. 337 p. illust. 4°) 1887.1

Nelson, *T. H.*, & **Clarke,** *W. E.* *Scorpœna dactyloptera* on the Yorkshire coast. Naturalist, 1893, 81. 1893.1

Nemeczek, *A.* Beiträge zur Kenntnis der Myxo- und Microsporidien der Fische. Arch. Protistenkunde, 1911, **22**, 143–169. 1911.1

Material observed consisted of Silurus, Tinca, Barbus, Esox, Lucioperca, Aspro, Abramis, Leuciscus, Aspius, Acipenser, Oncorhynchus and Gadus.

Nemiloff, *Anton.* Zur Frage über den Bau der Fettzellen bei *Acipenser ruthenus.* Anat. Anz., 1906, **28**, 513–522. 6 figs. 1906.1

—— Beobachtungen über die Nervenelemente bei Ganoïden und Knochenfischen. I. Der Bau der Nervenzellen. II. Der Bau der Nervenfasern. Arch. Mikr. Anat., 1908, **72**, 1–46. *Ibid.*, 575–606. 3 pls. 1908.1

—— Zur Frage über den feineren Bau der varikösen Verdickungen an den marklosen Nervenfasern. Arch. Mikr. Anat., 1910, **75**, 562–583. pl. 1910.1

Observations based on *Raja clavata.*

—— Ueber die subpiale Schicht des Rückenmarks der Fische. Arch. Mikr. Anat., 1912, **80**, 1. Abth., 587–608. pl. 1912.1

Material investigated consists of sharks, chimæroids and teleosts.

Nemnich, *Philip Andreas.* Allgemeines Polyglotten-Lexicon der Naturgeschichte. 4 vols. Hamburg, 1793–98. 1793.1

Bd. i–ii, Lief. 1–4, A–Z. 1684 + 1592 p. 1793–1795.

Bd. iii, Lief. 5. Deutsches und englisches Wörterbuch der Naturgeschichte. p. 1–1056 [n. d.]

Bd. iv, Lief. 7–8. Französische, italienische, spanische, holländische, schwedische, dänische, norwegische und isländische Wörterbücher der Naturgeschichte. Auch einige Nachträge. p. 1056–2108. 1798.

This work is noticed by T. N. Gill in Amer. Naturalist, 1904, **38**, 241–242.

Nengermann, *A. A.*, **Kerbert,** C., & **Nierstrass,** *H. F. See* **Nierstrass, Nengermann & Kerbert.**

Nenning, *S. V.* Die Fische des Bodensees nach ihrer äussern Erscheinung. Constanz, 1834. iv, 34 p. 8°. 1834.1

Neresheimer, *Eugen.* Die Fortpflanzung eines parasitischen Infusors (Ichthyophthirius) Sitzber. Ges. Morphol. Physiol., München, 1907. 1907.1

—— Der Zeugungskreis des Ichthyophthirius. Ber. Bayer. Biol. Versuchs-Stat. München, 1908, **1**, 165–184. pl. & 4 figs. 1908.1

—— Blutsverwandtschaft und Serumreaktion bei Salmoniden. Ber. Bayer. Biol. Versuchs-Stat. München, 1909, **2**, 79–88. 1909.1

—— Parasitische Copepoden (In Brauer, A. Die Süsswasserfauna Deutschlands, pt. ii, p. 70–84. Jena, 1909. 35 figs. 1909.2

Copepods as parasites on fish.

—— Studien über Süsswasser-Lernæpodiden. Ber. Bayer. Biol. Versuchs-Stat. München, 1909, **2**, 1–9, pl. & fig. 1909.3

—— Fischzucht und Landwirtschaft. Monatshefte Landwirtsch., 1910, 369–376. 1910.1

—— *Costia necatrix* (In Prowazek, S. J. M. von. Handbuch der pathogenen Protozoen, vol. i, p. 98–100. Leipzig, 1911) 1911.1

—— Das Genus Trypanoplasma (In Prowazek, S. J. M. von. Handbuch der pathogenen Protozoen, vol. i, p. 101–117. Leipzig, 1911) 1911.2

—— Die Furunkulose in der Traun. Oesterr. Fischerei Zeitg., 1911, **8**, 390–391. 1911.3

Statistische Angaben und Besprechung prophylaktischer Massnahmen gegen Verschleppung der Seuche.

—— Teichwirtschaftliche Streitfragen. Oester.-ungar. Fischerei Zeitg., 1911, 75–78. 1911.4

Nero, *Vittorio dal.* Bibliografia ed inventario delle ittioliti terziarie di monte Bolca conservate nel Civico Museo di Verona. Madonna Verona, 1911, 5. anno, **2**, 120–126. *Ibid.*, **3**, 133–167. *Ibid.*, 1912, **4**, 246–260. 1911.1

The bibliography includes 109 titles.

Nesley, *C. H.* Small-mouth black bass. Trans. Amer. Fisheries Soc. 1913 (1914), 165–168. 1914.1

Nessi, *Gian Gaspare.* Memorie storiche di Locarno fino al 1660 dell' Avv. Gian-Gaspare Nessi. Locarno, 1854. 12°. 1854.1

Nestler, *K.* Beiträge zur Anatomie und Entwicklungsgeschichte von *Petromyzon planeri.* Arch. Naturgesch., 1890, 56. Jahrg., Bd. **1**, 81–112. 3 pls. Abstracts in Zool. Anz., **13**, 11–12. — Ann. Mag. Nat. Hist., 6 ser. **5**, 262–263. 1890.1

Netherclift, *Walter.* The San Joaquin river and its fishes. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 480. 1876.1

Nettelbladt, *V.* Zur Fischfauna der Ostsee. Arch. Ver. Mecklenburg, 1885, **39**, 157. 1885.1

Nettle, *Richard.* The salmon fisheries of the St. Lawrence and its tributaries. Montreal, 1857. 144 p. 12°. 1857.1

Neu, *J. F.* Die Teichwirthschaft, die Teichfischerei und der Teichbau. Bautzen, 1859. viii, 48 p. 8°. 1859.1

Neudörfer, *Arthur.* Versuche über die Anpassung von Süsswasserfischen an Salzwasser. Arch. Entw.-Mech. Leipzig, 1907, **23**, 566–578. 1907.1

Neugeboren, *Ludwig.* Die vorweltlichen Squaliden-Zähne aus dem Grobkalke bei Portsesd am Altfluss unweit Talmats. Arch. Siebenbürg. Landesk., Hermannstadt, 1850, **4**, 1–44; 151–214. 1850.1

—— Literarische Notiz über J. Heckel's "Fossile Fische Oesterreichs." Verh. Siebenbürg. Ver. Naturw., Hermannstadt, 1851, **2**, 101–106. 1851.1

Neumayer, *Georg Balthasar von* [1826–1909] Anleitung zu wissenschaftlichen Beobachtungen auf Reisen. Berlin, 1875. 696 p. illust. 8°. 1875.1

Das Sammeln von Reptilien und Fischen, von A. Günther.

—— The same. 2. ed. 2 vols. Berlin, 1888. 8°. 1888.1

—— The same. 3. ed. 2 vols. Hannover, 1906. 8°. 1906.1

Neumayer, *Ludwig* [1866 —] Histiologische Untersuchungen über den feineren Bau des Centralnervensystems von *Esox lucius*, mit Berücksichtigung vergleichend-anatomischer und physiologischer Verhältnisse. Arch. Mikr. Anat., 1895, **44**, 345–365. pl. 1895.1

—— Der feinere Bau der Selachier-Retina. Arch. Mikr. Anat., 1896, **48**, 83–111. 25 figs. 1896.1

—— Zur vergleichenden Anatomie des Kopfskelettes von *Petromyzon planeri* und *Myxine glutinosa*. Sitzber. Ges. Morphol. Physiol., München, 1898, **74**, 1–8. 5 pls. & fig. 1898.1

—— Die Entwickelung des Darmkanales von *Ceratodus forsteri*. Anat. Anz. (Verhandl. Anat. Ges.), 1903, **23**, 139–142. 1903.1

—— Die Entwickelung des Darmkanales, von Lunge, Leber, Milz und Pankreas bei *Ceratodus forsteri* (In Semon, R. Zoologische Forschungsreisen in Australien und dem Malayischen Archipel in den Jahren 1891–1893, Bd. i, p. 377–422. pl. & 34 figs. Jena, 1904) 1904.1

—— Die Koprolithen des Perms von Texas. Palæontographica, 1904, **51**, 121–127. pl. 1904.2

Comparisons with the intestinal canal of sharks and Ceratodus.

—— Recherches sur le développement du foie, du pancréas et de la rate chez Ceratodus. C. R. Assoc. Anat., Nancy, 1904, 73–77. 1904.3

—— Morpho- und Histogenese des peripheren Nervensystems, der Spinalganglien und des Nervus sympathicus. Handb. Vergl. Exper. Entwickl. Wirbeltiere, 1906, 513–626. 105 figs. 1906.1

—— Zur vergleichenden Anatomie des Gehirns und des Cavum cranii der Siluroiden. Anat. Anz. (Verh. Anat. Ges.), 1908, **32**, 273–277. 2 figs. 1908.1

—— Die Entwickelung des Kopfskelettes von *Bdellostoma stouti* L. Das Hyobranchialskelett. Anat. Anz. (Verh. Anat. Ges.), 1910, **37**, 94–100. 1910.1

—— Zur vergleichenden Anatomie des Schädels eocäner und rezenter Siluriden. Palæontographica, 1913, **59**, 251–288. 4 pls. & 5 figs. 1913.1

Brain-casts and otoliths of Fajumia and other Eocene siluroids are described and figured.

—— Vergleichende Anatomie des Darmkanals der Wirbeltiere. Verh. Anat. Ges., 28. Vers., 1914, 126–129. 1914.1

Dem Spiraldarm rezenter Formen homologe Bildungen bei den fossilen Fischen.

Neumayer, *M.* Die Wirbelthiere der Juraformation. Gaea, 1896, 32. Jahrg., 2. Heft, 81–95. pl. & 4 figs. 1896.1

Neuville, *Henri.* Note sur le système porte-hépatique des squales. Bull. Mus. Hist. Nat. Paris, 1896, **2**, 143–146. 1896.1

—— Remarques anatomiques sur les squales observés pendant la dernière campagne du yacht "Princesse-Alice." Bull. Mus. Hist. Nat. Paris, 1897, **3**, 55–56. 1897.1

—— Remarques sur les squales de mer profonde observés à Sétubal (Portugal) Bull. Mus. Hist. Nat. Paris, 1897, **3**, 87–89. 1897.2

—— Sur les vaisseaux intra-intestinaux des sélaciens. Bull. Mus. Hist. Nat. Paris, 1897, **3**, 317. 1897.3

—— A propos des termes par lesquels on désigne les formes diverses de la rate

des sélaciens. Bull. Mus. Hist. Nat. Paris, 1898, **4**, 201–202. 1898.1

—— Note préliminaire sur l'endothelium des veines intestinales chez les sélaciens. Bull. Mus. Hist. Nat. Paris, 1900, **6**, 71–72. 1900.1

—— Le système sus-hépatique des sélaciens. Bull. Soc. Philom. Paris, 1900, 9. sér. **2**, 84–91. 2 figs. 1900.2

—— Contribution à l'étude de la vascularisation intestinale chez les cyclostomes et les sélaciens. Ann. Sci. Nat. (*Zool.*), 1901, 6. sér. **13**, 1–116. pl. Also separate; Inaug. Dissert. Paris, 1901. 116 p. 8°. 1901.1

—— L'intestin valvulaire de la chimère monstrueuse, *Chimæra monstrosa* Linné. Bull. Soc. Philom. Paris, 1901, 9. sér. **3**, 59–66. 4 figs. 1901.2

Neuwied, (*Prinz*) *Maximilian Alexander Philipp zu Wied. See* **Wied-Neuwied,** (*Prinz*) *Maximilian Alexander Philipp zu.*

Neuwinger, *Karl.* Beobachtungen über die Bachforelle in den Gewässern des Isergebirges. Mitth. Ver. Nat. Reichenberg, 1913, 41. Jahrg., 18–20. 1913.1

Neveu-Lemaire, *Maurice.* Sur les parasites des poissons du genre Orestias (Mission scientifique de Créqui Montfort et Sénéchal de la Grange) Bull. Soc. Philom. Paris, 1905, **7**, 255–259. figs. 1905.1

—— Sur un nouvel acanthocéphale (*Echinorhynchus orestiæ*, nov. sp.) parasite des poissons du genre Orestias. C. R. Mém. Soc. Biol. Paris, 1905, **57**, 31–32. 1905.2

—— Les lacs des hauts plateaux de l'Amérique du Sud, etc. Paris, 1906. vi, 197 p. 9 col. pls. & maps. 1906.1

Résultats de la mission scientifique de G. de Créqui Montfort et E. Sénéchal de la Grange. Chap. iii. Faune et flore, etc. Poissons, par J. Pellegrin, p. 112–137. pl. & figs.

—— El Titicaca y el Poopó. Revist. Minist. Coloniz. Agricult., La Paz, 1906, **2**, 568–591. 1906.2

Contains some notices of fishes.

—— Sur la présence d'une larve de ligule (*Ligula simplicissima*) dans la cavité crânienne d'une tanche (*Tinca vulgaris*) C. R. Mém. Soc. Biol. Paris, 1909, **66**, 88–89. 1909.1

Nevin, *James.* Hatching the walleyed pike. Trans. Amer. Fisheries Soc. 1887 (1888), 14–16. 1888.1

—— Work of the Wisconsin Fish Commission. Trans. Amer. Fisheries Soc. 1888 (1889), 100–103. 1889.1

—— Planting fry vs. planting fingerlings. Trans. Amer. Fisheries Soc. 1892 (1893), 81–85. 1893.1

—— Wall-eyed pike. Trans. Amer. Fisheries Soc. 1897 (1898), 126–127. 1898.1

—— Artificial propagation vs. a close season for the Great Lakes. Trans. Amer. Fisheries Soc. 1898 (1899), 17–25. 1899.1

—— The propagation of muscallonge in Wisconsin. Trans. Amer. Fisheries Soc. 1901 (1902), 90–93. 1902.1

Newberry, *John Strong* [1822–1892] For biographical notice and list of writings, *see* Kemp, J. F. Memorial of J. S. Newberry. Bull. Geol. Soc. Amer., 1893, **4**, 393–406.

—— Fossil fishes of the cliff limestone of Ohio. Ann. Sci., Cleveland, Ohio, 1853, **1**, 12–13. 2 figs. 1853.1

—— On the fossil fishes of the cliff limestone of Ohio. Proc. Amer. Assoc. Adv. Sci., 7. meet., 1853, 166–167. Abstract in Ann. Sci., Cleveland, Ohio, 1853, **1**, 282–283. 1853.2

—— Description of several new genera and species of fossil fishes from the Carboniferous strata of Ohio. Proc. Acad. Nat. Sci. Philad., 1856, **8**, 96–100. 1856.1

—— Fossil fishes from the Devonian of Ohio. Proc. Nat. Instit., Washington, 1857, n. s. **1**, 119–126. fig. 1857.1

—— Letter changing the genus Mekolepis to Eurylepis, the former being preoccupied. Proc. Acad. Nat. Sci. Philad., 1857, **9**, 150. 1857.2

—— New fossil fishes from the Devonian rocks of Ohio. Amer. Journ. Sci., 1857, 2. sér. **24**, 147–149. 1857.3

—— Notes on American fossil fishes. Amer. Journ. Sci., 1862, 2. ser. **34**, 73–78. figs. 1862.1

—— On some fossil reptiles and fishes from the Carboniferous strata of Ohio, Kentucky and Illinois. Abstract in

Newberry, *J. S.*
Proc. Amer. Assoc. Adv. Sci., 15. meet., 1867 (1868), 144–146. 1868.1

—— On some remarkable fossil fishes discovered by Rev. H. Herzer, in the Black shale (Devonian) at Delaware, Ohio. Proc. Amer. Assoc. Adv. Sci., 15. meet., 1867 (1868), 146–147. 2 figs. 1868.2

Describes *Dinichthys herzeri.*

—— Fossil fishes from the Devonian rocks of Ohio. Proc. Lyceum Nat. Hist. N. Y., 1870, **1**, 152–153. 1870.1

—— Fossils from the phosphatic beds of South Carolina. Proc. Lyceum Nat. Hist., N. Y., 1871, **1**, 240–241. 1871.1

—— Descriptions of fossil fishes. Rept. Geol. Surv. Ohio, 1873, **1**, pt. 2 (Palæontology), 245–355. 7 pls. 1873.1

Descriptions of fishes of the Devonian system, p. 290–324.
Description of fishes of the Carboniferous system, p. 325–355. The forms described include elasmobranchs, arthrodires and ganoids.

—— Notes on the genus Conchiopsis Cope. Proc. Acad. Nat. Sci. Philad., 1873, 425–426. 1873.2

—— Remarks reviewing the history of the class of fishes as traced in the older rocks of North America. Proc. Lyceum Nat. Hist. N. Y., 1873, 2. ser. no. 2, 25–28. 1873.3

—— Specimens of *Cœlacanthus elegans* Newb. from the Coal Measures of Linton, Ohio. Proc. Lyceum Nat. Hist. N. Y., 1873, 2. ser. no. 2, 30–32. 1873.4

Some general remarks on Cœlacanthus, no description of *C. elegans.*

—— Account of a second species of Dinichthys [*D. terrelli*] recently discovered in Ohio. Proc. Lyceum Nat. Hist. N. Y., 1874, 2. ser. no. 4, 149–151. 1874.1

—— Description of the Linton coal bed. Proc. Lyceum Nat. Hist. N. Y., 1874, 2. ser. no. 4, 134–135. 1874.2

Contains mention of Cœlacanthus, Eurylepis and Rhizodus remains.

—— Remarks on *Cœlacanthus elegans* and on Prof. Cope's genera Conchiopsis and Peplorhina. Proc. Lyceum Nat. Hist. N. Y., 1874, 2. ser. no. 3, 76–77. 1874.3

—— Descriptions of fossil fishes. Rept. Geol. Surv. Ohio, 1875, **2**, pt. 2 (Palæontology), 1–64. 6 pls. 1875.1

Contents: Placoderms, p. 1–43. Elasmobranchs, p. 44–58. Holocephali, p. 58–59. Dipterini, p. 59–64.

—— Descriptions of the Carboniferous and Triassic fossils collected on the San Juan exploring expedition under Capt. J. N. Macomb, U. S. Engineers (In Report of the Exploring Expedition from Santa Fe, N. Mex., to the junction of the Grand and Green rivers of the Great Colorado of the West, in 1859, p. 135–148. pl. Washington, D. C., 1876. 4°) 1876.1

Describes *Deltodus mercurii* Newb., *Ptychodus whipplei* Marcou, and mentions finding of *Lamna texana* Roem. and *Oxyrhina mantelli* Ag.

—— Description of *Rhynchodus excavatus.* Rept. Geol. Survey Wisconsin, 1877, **2**, 397. 1877.1

The so-called *Rhynchodus occidentalis* of Newberry was later shown by C. R. Eastman to be identical with this species, and the original holotype figured by him (Ann. Rept. Iowa Geol. Surv., 1908, **18**, 125)

—— Description of new fossil fishes [*Diplurus longicaudatus* and *Ptycholepis marshi*] from the Trias of New Jersey and Connecticut. Ann. N. Y. Acad. Sci., 1878, **1**, 127–128. 1878.1

—— Descriptions of new Palæozoic fishes. Ann. N. Y. Acad. Sci., 1878, **1**, 188–192. 1878.2

Describes *Diplognathus mirabilis, Glyptopomus sayrei, Archæobatis gigas,* gen. nov., *Dinichthys minor, Ctenacanthus compressus, Rhynchodus occidentalis* and *R. excavatus,* the two last-named species being identical.

—— [Letter to Professor John Collett, describing a collection of remains of fossil fishes collected in Indiana] Rept. State Geol. Indiana 1876–78 (1879), 341–349. 1879.1

—— The relations of Dinichthys, as shown by complete crania recently discovered by Mr. Jay Terrell in the Huron shale of Ohio. Trans. N. Y. Acad. Sci., 1883, **3**, 20. 1883.1

—— Some interesting remains of fossil fishes recently discovered. Trans. N. Y. Acad. Sci., 1883, **2**, 144–147. 1883.2

Describes dental plates of *Mylostoma variabilis* and *M. terrelli.*

—— *Ctenacanthus wrighti,* n. sp. 35. Ann. Rept. N. Y. State Mus. Nat. Hist., 1884, 206. pl. & fig. 1884.1

—— On the recent discovery of new and remarkable fossil fishes in the Carboniferous and Devonian rocks of Ohio and Indiana. Geol. Mag., 1884, 3. dec. **1**, 523–524. — Rept. Brit. Assoc. Adv. Sci., 54. meet., 1884, 724–725. 1884.2

Dinichthys, Diplognathus, Mylostoma, Archæobatis, Edestus and Ctenodus are noticed.

—— Description of some gigantic placoderm fishes recently discovered in the Devonian of Ohio. Trans. N. Y. Acad. Sci., 1885, **5**, 25–28. 1885.1

—— Descriptions of some peculiar screw-like fossils from the Chemung rocks. Ann. N. Y. Acad. Sci., 1885, **18**, 217–220. pl. 1885.2

Describes new genus Spiraxis, with species *S. major* and *S. randalli.*

—— Sur les restes de grands poissons fossiles récemment découverts dans les roches devoniennes de l'Amérique du Nord. C. R. Congr. Géol. Intern. Berlin, 1885, 273–276. 1885.3

—— Cœlosteus, a new genus of fishes from the Lower Carboniferous limestones of Illinois. Trans. N. Y. Acad. Sci., 1887, **6**, 137–138. 1887.1

—— Description of a new species of Titanichthys. Trans. N. Y. Acad. Sci., 1887, **6**, 164–165. 1887.2

An abstract describing *Titanichthys clarkii.*

—— Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut valley. Monogr. U. S. Geol. Surv., 1888, **14**, 1–152. 26 pls. 1888.1

Review by A. S. Woodward in Nature, 1889, **43**, 366–367.

—— Note on a new species of Rhizodus [*R. anceps*, sp. nov.] from the St. Louis limestone at Alton, Illinois. Trans. N. Y. Acad. Sci., 1888, **7**, 165. 1888.2

—— On the fossil fishes of the Erie shale of Ohio. Trans. N. Y. Acad. Sci., 1888, **7**, 178–180. 1888.3

The following-named new species are described: *Cladodus kepleri, Actinophorus clarkii, Dinichthys curtus* and *D. tuberculatus.*

—— On the structure and relations of Edestus with a description of a gigantic new species [*E. giganteus*, sp. nov.] Ann. N. Y. Acad. Sci., 1888, **4**, 113–122. 3 pls. 1888.4

—— The Palæozoic fishes of North America. Monogr. U. S. Geol. Surv., 1889, **16**, 1–340. 53 pls. 1889.1

Although the imprint of the title-page of this monograph gives 1889 as year of printing, it was not issued until August, 1890.
Review by A. S. Woodward in Nature, 1890, **43**, 146.

—— On the genus Oracanthus Ag. Abstract in Trans. N. Y. Acad. Sci., 1890, **9**, 131–133. 1890.1

—— American Devonian fishes found in Belgium. Amer. Naturalist, 1892, **26**, 1025. 1892.1

Dinichthys pustulosus (*D. tuberculatus*) and *D. terrelli* are reported from Belgium. The determinations were made by Dr. Newberry. The paper above quoted is a translation of one by Max Lohest in Ann. Soc. Géol. Belgique, **16**.

—— New species and a new genus of American Palæozoic fishes, together with notes on the genera Oracanthus, Dactylodus, Polyrhizodus, Sandalodus, Deltodus [From a nearly completed MS. (1890–1891) edited by Bashford Dean] Trans. N. Y. Acad. Sci., 1898, **16**, 282–304. 3 pls. 1898.1

Descriptions are given of 16 new species, most of them figured. The new genus Stenognathus is proposed, having as type *Dinichthys corrugatus.*

Newberry, *John Strong,* & **Ives,** *Joseph C. See* **Ives & Newberry.**

Newberry, *John Strong,* & **Worthen,** *Amos H.* Descriptions of new species of vertebrates, mainly from the Subcarboniferous limestone and Coal Measures of Illinois. Geol. Surv. Illinois, 1866, **2**, 9–134. 13 pls. 1866.1

Two species of ganoids, and 116 of Carboniferous sharks' teeth and spines are described.

—— Descriptions of fossil vertebrates. Geol. Surv. Illinois, 1870, **4**, 347–374. 4 pls. 1870.1

Four species of ganoids, and a number of spines and teeth including Edestus, of sharks, from the Carboniferous of Illinois are described.

Newbigin, *M. I.* The pigments of the muscle and ovary of the salmon and their exchanges. 18. Ann. Rept. Fishery Board Scotland, 1900, pt. 2, 159–164. 1900.1

Newbigin, *M. I.,* & **Paton,** *D. Noël. See* **Paton & Newbigin.**

Newbold, *T. J.* Some account of an enormous undescribed fish, apparently one of the Raiidæ, killed by the crew of H. M. S. "Frolic" off the coast of California. Zoologist, 1849, **7**, 2357. 1849.1

Newland, *R. G.,* & **Meek,** *Seth Eugene. See* **Meek & Newland.**

Newman, *Edward.* Note on *Lepidosiren annectens.* Proc. Linn. Soc. London (*Zool.*), 1857, **1**, 73–74. 1857.1

—— Is the mud-fish a fish or an amphibian? Zoologist, 1859, **17**, 6450–6461. 1859.1

Newman, *E.*
—— Musical fishes of the east. Zoologist, 1860, **18**, 7179–7182. 1860.1

—— Note on an ophioid fish [*Regalecus jonesii*] lately taken in the island of Bermuda, which appears to be new to science. Zoologist, 1860, **18**, 6989–6993. 1860.2

—— Unusual modes of gestation in batrachians and fishes. Zoologist, 1860, **18**, 7173–7179. 1860.3

—— Note on the occurrence of the lesser forked-beard [*Raniceps trifurcus*] in Mount's bay, Cornwall. Zoologist, 1863, **21**, 8642–8643. 1863.1

—— The barramunda, a new ganoid fish from Queensland. Zoologist, 1872, 2. ser. **7**, 3188–3189. 1872.1

—— *Callionymus lyra* in the aquarium at Sydenham. Zoologist, 1873, 2. ser. **8**, 3495–3496. 1873.1

—— Serialia growing on a Hippocampus. Zoologist, 1873, 2. ser. **8**, 3494. 1873.2

—— The denizens of aquariums. Zoologist, 1874, 2. ser. **9**, 3874. 1874.1

—— Telescope fishes [*Carassius auratus*] Zoologist, 1875, 2. ser. **10**, 4501. 1875.1

Newman, *H. H.* On some factors governing the permeability of the egg-membrane by the sperm. Biol. Bull. Woods Hole, 1905, **9**, 378–387. 1905.1

—— Spawning behavior and sexual dimorphism in *Fundulus heteroclitus* and allied fish. Biol. Bull. Woods Hole, 1907, **12**, 314–348. 3 pls. & 22 figs. 1907.1

—— The process of heredity as exhibited by the development of Fundulus hybrids. Journ. Exper. Zool., Philad., 1908, **5**, 503–561. 5 pls. & 16 figs. Abstract in Science, 1908, n. s. **27**, 944–945. 1908.1

—— A significant case of hermaphroditism in fish. Biol. Bull. Woods Hole, 1908, **15**, 207–214. 4 figs. 1908.2

—— Contact organs in the killifishes of Woods Hole. Biol. Bull. Woods Hole, 1909, **17**, 170–180. 11 figs. 1909.1

—— The question of viviparity in *Fundulus majalis*. Science, 1909, n. s. **30**, 769–771. 1909.2

—— Further studies of the process of heredity in Fundulus hybrids. I. The influence of the spermatozoön on the rate and character of early cleavage. Journ. Exper. Zool., Philad., 1910, **8**, 143–161. 7 figs. 1910.1

Notice by Emil Godlewski in Arch. Entw.-Mech., Leipzig, **31**, 335–338.

—— Reply to E. Godlewski's Bemerkungen zu der Arbeit von H. H. Newman: "Further studies of the process of heredity in Fundulus hybrids." Arch. Entw.-Mech., Leipzig, 1910, **32**, pt. 3, 472–476. 1910.2

—— Modes of inheritance in teleost hybrids. Journ. Exper. Zool., 1914, **16**, 447–499. 5 pls. 1914.1

Cleavage rate a function of egg size and constitution. Action of foreign sperm chemical and mechanical, not always deleterious.

—— Development and heredity in heterogenic teleost hybrids. Journ. Exper. Zool., 1915, **18**, 511–576. 11 figs. 1915.1

No primary correlation between degree of success in development and nearness of relationships. Maternal predominance common, but many cases with definite paternal characters.

Newton, *Edwin Tulley* [1840—] On two chimæroid jaws from the Lower Greensand of New Zealand. Quart. Journ. Geol. Soc., 1876, **32**, 326–331. — Ann. Mag. Nat. Hist., 1877, 4. ser. **19**, 261–262. — Neues Jahrb. Mineral., 1877, 559. pl. 1876.1

—— Deux maxillaires de chiméridés trouvés dans les grès verts inférieurs de la Nouvelle-Zélande. Journ. Zool. (Gervais), 1877, **6**, 52–53. 1877.1

—— On the remains of Hypsodon, Portheus and Ichthyodectes from British Cretaceous strata, with descriptions of new species. Quart. Journ. Geol. Soc., 1877, **33**, 505–523. — Ann. Mag. Nat. Hist., 1878, 5. ser. **2**, 93–94. pl. 1877.2

—— The chimæroid fishes of the British Cretaceous strata. Mem. Geol. Survey United Kingdom, 1878, Monograph no. 4, 1–50. 12 pls. 1878.1

—— Description of a new fish [*Daptinus intermedius*] from the Lower Chalk of Dover. Quart. Journ. Geol. Soc., 1878, **34**, 439–446. — Ann. Mag. Nat. Hist., 1878, 5. ser. **2**, 268. pl. 1878.2

—— Remarks on Saurocephalus, and on the species which have been referred to that genus. Quart. Journ. Geol.

Soc., 1878, **34**, 786–796. — Ann. Mag. Nat. Hist., 1878, 5. ser. **2**, 345–346. 1878.3

—— The chimæroid fishes of the British Cretaceous rocks. Neues Jahrb. Mineral., 1880, **2**, 103–104. 1880.1

—— Notes on the vertebrata of the pre-glacial Forest Bed series of the east of England. VII. Pisces. Geol. Mag., 1882, 2. dec. **9**, 112–114. 1882.1

—— On the remains of fishes from the Keuper of Warwick and Nottingham; with notes on their mode of occurrence by the Rev. P. B. Brodie and Edward Wilson. Quart. Journ. Geol. Soc., 1887, **43**, 537–540. pl. 1887.1

—— A contribution to the history of Eocene siluroid fishes. Proc. Zool. Soc. London, 1889, 201–207. pl. 1889.1

List of papers on fossil siluroid fishes, p. 206–207.

—— Description of a new species of Clupea [*C. vectensis*] from Oligocene strata in the isle of Wight. Ann. Mag. Nat. Hist., 1889, 6. ser. **3**, 289. 1889.2

—— Note on a new species of Onychodus from the Lower Old Red Sandstone of Forfar. Geol. Mag., 1892, 3. dec. **9**, 51–52. fig. 1892.1

—— The typical parts in the skeleton of a cat, duck and codfish, being a catalogue with comparative descriptions arranged in a tabular form. London, 1895. 20 p. 8°. 1895.1

—— On the remains of Amia from Oligocene strata in the isle of Wight. Quart. Journ. Geol. Soc., 1899, **55**, 1–10. pl. 1899.1

—— British Pleistocene fishes. Geol. Mag., 1901, 2. dec. **8**, 49–52. 1901.1

List of 10 species of teleosts. Literature references, p. 52.

—— On the occurrence of Edestus in the Coal Measures of Britain. Quart. Journ. Geol. Soc., 1904, **60**, 1–8. pl. & 2 figs. 1904.1

Edestus triserratus, n. sp. Bibliographical list, p. 7–8.

—— Investigation of fauna and flora of the Trias of the British isles. II. Notes on the Triassic fossils (excluding Rhætic) in the Museum of the Geological Survey at Jermyn Street, London. Rept. Brit. Assoc. Adv. Sci., 74. meet., 1904 (1905), 282–285. 1905.1

List includes Hybodus, Acrodus, Sagenodus, Dictyopyge, Semionotus and Dipteronotus.

—— Note relative à des fragments fossiles de petits vertébrés trouvés dans les dépots pliocènes de Tegelen-sur-Meuse. Bull. Soc. Belg. Géol. Pal., 1908, **21**, 591–596. 2 figs. 1908.1

Newton, *Edwin Tulley*, **Dixon,** *A. F.*, **Westropp,** *T. J.*, **Scharff,** *R. F.*, **Ussher,** *R. J.*, & **Cole,** *G. A. J.* *See* **Scharff, Ussher** & others.

Newton, *Frederick*. Sharks off the Cornish coast. Zoologist, 1870, 2. ser. **5**, 2308. 1870.1

Dogfish and blue shark.

Neydeck, *K. J.* Beitrag zur Naturgeschichte der Fische (Cyprinen) 15. Jahresber. Mannheim. Naturkunde, 1848. 1848.1

Nicati, *Constant*. Sur les essais de pisciculture. Bull. Soc. Vaud. Sci. Nat. Lausanne, 1874, **12**, 459–463. 1874.1

Nicholls, *George E.* An experimental investigation on the function of Reissner's fibre. Anat. Anz., 1912, **40**, 409–432. 2 pls. Abstract in Journ. Mar. Biol. Assoc., n. s. **9**, 566. 1912.1

Experiments on dogfish and skate.

—— The structure and development of Reissner's fibre and the sub-commissural organ. Part i. Quart. Journ. Micr. Sci., 1912, **58**, 467. 1912.2

—— On the occurrence of an intracranial ganglion upon the oculomotor nerve in *Scyllium canicula* with a suggestion as to its bearing upon the question of the segmental value of certain of the cranial nerves. Proc. Roy. Soc. London, 1915, **88** B, 553–568. fig. 1915.1

Undoubtedly afferent-efferent. Transient dorsal root.

Nicholls, *Henry*. Fox-shark [*Alopecias vulpes*] off the Slapton sands. Zoologist, 1869, 2. ser. **4**, 1869. 1869.1

Nicholls, *Richard P.* Boar-fish [*Capros aper*] at Torcross. Zoologist, 1875, 2. ser. **10**, 4460. 1875.1

Nichols, *John Treadwell* [1883 —] A note on the silverside. Amer. Naturalist, 1908, **42**, 731. 1908.1

—— A small collection of Alaska fishes. Proc. Biol. Soc. Washington, 1908, **21**, 171–174. 1908.2

—— A note on the dolphins (*Coryphæna equisetis* and *Coryphæna hippurus*) Bull. Amer. Mus. Nat. Hist., 1909, **26**, 131–133. 2 figs. 1909.1

Nichols, *J. T.*

—— The American Museum's exhibit of fishes. Trans. Amer. Fisheries Soc., 1910, 261. 1910.1

—— A note on *Siphostoma pelagicum* (Osbeck) A note on the identity of *Caranx forsteri* Cuvier & Valenciennes. On two new blennys from Florida. Bull. Amer. Mus. Nat. Hist., 1910, **28**, 155–161. figs. 1910.2

Two new species are described of Blennius and Stathmonotus.

—— Report from the "Fabbri" yacht. Journ. Amer. Mus. Nat. Hist., 1910, **10**, 110. 1910.3

—— Notes on teleostean fishes from the eastern United States. Bull. Amer. Mus. Nat. Hist., 1911, **30**, 275–278. pl. & fig. 1911.1

Description is given of *Moxostoma alleghaniensis*, sp. nov.

—— Progressive variation in Decapterus, a genus of carangoid fishes. Science, 1911, n. s. **34**, 217–218. 1911.2

—— The aquarium exhibit. Aquarium, October, 1912, 42–43. 1912.1

—— Fish life of a Florida swamp. Aquarium, 1912, 30–31. figs. 1912.2

—— Notes on Cuban fishes. Bull. Amer. Mus. Nat. Hist., 1912, **31**, 179–194. 2 figs. 1912.3

New species are described of Siphostoma and Xystæma.

—— Notes on some seldom marketed saltwater fishes. Trans. Amer. Fisheries Soc. 1911 (1912), 277–282. 1912.4

—— Notes on West Indian fishes. Bull. Amer. Mus. Nat. Hist., 1912, **31**, 109–111. 4 figs. 1912.5

Contains description of *Antennarius astroscopus*, sp. nov.

—— On New York killies. Aquarium, 1912, 61–62. 1912.6

—— On the uses of fishes' fins. Aquarium, 1912, 56. 1912.7

—— Fish from deep water off New York. Amer. Mus. Journ., 1913, **13**, 43–44. 1913.1

—— A list of fishes known to have occurred within fifty miles of New York city. Abstr. Proc. Linn. Soc. N. Y., 1913, nos. 20–23, 98–106. 3 pls. & fig. 1913.2

—— Notes on fishes near New York. Copeia, 1913, no. 1, 4. 1913.3

—— Notes on teleosts collected by Mr. Roy C. Andrews in Japan, with descriptions of two new species. Bull. Amer. Mus. Nat. Hist., 1913, **32**, 179–183. 3 figs. 1913.4

Two new species are described: *Epinephelus lobotoides* and *Sciæna ogiwara*.

—— On two new characins in the American Museum. Proc. Biol. Soc. Washington, 1913, **26**, 151–152. 1913.5

—— Concerning young bluefish. Trans. Amer. Fisheries Soc. 1913 (1914), 169–172. 1914.1

—— *Gobiosoma longum* and *Rivulus heyei*, new fishes from the West Indian fauna. Bull. Amer. Mus. Nat. Hist., 1914, **33**, 143–144. fig. 1914.2

—— A new Scorpæna [*Scorpæna colesi*, n. sp.] and a rare ray from North Carolina. Bull. Amer. Mus. Nat. Hist., 1914, **33**, 537–538. fig. 1914.3

—— On a new swell-fish [*Spheroides harperi*, sp. nov.] from Florida. Bull. Amer. Mus Nat. Hist., 1914, **33**, 81–83. 1914.4

—— Certain familiar structural adaptations in fishes. Copeia, 1915, no. 19, 12–13. 1915.1

—— Fishes new to Porto Rico. Bull. Amer. Mus. Nat. Hist., 1915, **34**, 141–146. 2 figs. 1915.2

Two new species are described of Doryrhamphus and Gobius.

—— A new characin fish *Aphyocharax analis*, n. sp., from Brazil. Bull. Amer. Mus. Nat. Hist., 1915, **34**, 127–128. fig. 1915.3

—— On a young black angel-fish. Copeia, 1915, no. 20, 24. 1915.4

—— On fish-bones in a kingfisher's nest. Copeia, 1915, no. 21, 27–28. 1915.5

—— On *Heterandria zonata*, sp. nov. and *Heterandria versicolor* (Günther) from the island of Santo Domingo. Bull. Amer. Mus. Nat. Hist., 1915, **34**, 603–604. 3 figs. 1915.6

—— On one or two common structural adaptations in fishes. Copeia, 1915, no. 20, 19–21. 1915.7

—— Ground sharks; a correction. Copeia, 1916, no. 36, 81. 1916.1

—— A large Polyodon from Iowa. Copeia, 1916, no. 34, 65. 1916.2

—— *Lucania parva* in the Aquarium˙ Copeia, 1916, no. 31, 37–38. 1916.3

—— Occurrence of the croaker in New York harbor. Copeia, 1916, no. 26, 3–4. 1916.4

—— On primarily unadaptive variants. Amer. Naturalist, 1916, **50**, 565–574. 1916.5

Unadaptive color patterns of Scomberomorus, Trichiurus, Lepidopus, etc.

—— On a new race of minnow from the Rocky Mountain park. A new Gymnachirus from North Carolina. Bull. Amer. Mus. Nat. Hist., 1916, **35**, 69–72. fig. 1916.6

—— The problem of bright-colored fishes. Amer. Mus. Journ., 1916, **16**, 507–511. pl. & figs. 1916.7

—— Remarks on sharks taken in Great South bay. Copeia, 1916, no. 35, 72–73. 1916.8

—— Seasonal annotations on two Long Island fishes. Copeia, 1916, no. 27, 9–10. 1916.9

Raja eglanteria and *Zoarces anguillaris.*

Nichols, *John Treadwell,* & **Evermann,** *Barton Warren. See* **Evermann** & **Nichols.**

Nichols, *John Treadwell,* & **Gregory,** *William King. See* **Gregory** & **Nichols.**

Nichols, *John T.,* & **Mowbray,** *Louis L.* A new angel-fish (*Angelichthys townsendi,* n. sp.) from Key West. Bull. Amer. Mus. Nat. Hist., 1914, **33**, 581–583. 1914.1

Nichols, *John Treadwell,* & **Murphy,** *Robert Cushman.* Fishes from South Trinidad islet. Bull. Amer. Mus. Nat. Hist., 1914, **33**, 261–266. 3 figs. 1914.1

—— Long Island fauna. IV. The sharks. Brooklyn Mus. Sci. Bull., 1916, **3**, no. 1, 1–34. figs. 1916.1

—— A *Balistes vetula* topotype from Ascension [island] Copeia, 1917. no. 39, 2. 1917.1

Nichols, *John Treadwell,* & **Osburn,** *Raymond C. See* **Osburn** & **Nichols.**

Nichols, *John Treadwell,* & **Wiegmann,** *W. H.* Notes on fishes near New York. Copeia, 1914, no. 3, 2. 1914.1

—— Notes on fishes near New York. Copeia, 1915, no. 23, 43–45. 1915.1

Nicholson, *F. A.* Notes on fisheries of Japan, 1907. Madras, 1907. 8°. 1907.1

Nicholson, *Henry Alleyne* [1844–1899] A manual of zoology, etc. 2 vols. London & Edinburgh, 1870. illust. 1870.1

A fifth edition of this work was published at London & Edinburgh in 1878, and a seventh in 1887. 939 p. illust. 8°.

—— An introductory textbook of zoology. Edinburgh, 1871. 189 p. illust. 8°. 1871.1

A fifth edition of this work was published at Edinburgh & London in 1881. 232 p. illust. 8°.

—— Scientific works and memoirs [St. Andrews] 1877. 12 p. 8°. 1877.1

Nicholson, *Henry Alleyne,* & **Lydekker,** *Richard.* A manual of palæontology for the use of students. 2 vols. Edinburgh & London, 1889. illust. 8°. 1889.1

Fishes, vol. ii, p. 911–1017.

Nicholson, *Hunter.* The jack of Tennessee. Chicago Field, 1880, **13**, 83; 367. 1880.1

Nicholson, *W. A.* Sir Thomas Browne as a naturalist. Trans. Norfolk Norwich Natural. Soc., 1900, **7**, 72–89. 1900.1

Nickerson, *Seth.* Destruction of small fish in weirs. Bull. U. S. Fish Comm. 1884, **4**, 184. 1884.1

Nickerson, *Winfield Scott* [1864 —] The development of the scales of Lepidosteus. Bull. Mus. Comp. Zool. Harv. Coll., 1893, **24**, 115–139. 4 pls. 1893.1

—— Concerning *Cotylogaster occidentalis.* Science, 1900, n. s. **2**, 250. 1900.1

Discusses its effect on certain fishes.

Nicklas, *Carl.* Drei Tage auf der fürstlichen Schwarzenberg'schen Karpfen-Teich-Wirthschaft in Wittingen in Böhmen. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 197–198; 205–207; 213–214; 237–239; 245–247; 261–262. 1878.1

—— Der Aal (*Anguilla vulgaris*) Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 326–328. fig. 1879.1

—— Die Nahrung der Karpfen. Wiener Landw. Zeitg., 1880, no. 31, 251. 1880.1

Nicklas, *C.*

—— Lehrbuch der Teichwirthschaft. Stuttgart, 1881. xii, 392 p. illust. 1881.1

—— Feeding carp with Indian corn. Bull. U. S. Fish Comm. 1882 (1883), **2**, 168. 1883.1

—— Production of young fry of the carp. Bull. U. S. Fish Comm. 1883, **3**, 401–406. 1883.2

—— The artificial feeding of carp. Rept. U. S. Fish Comm. 1882 (1884), **10**, 1009–1031. 1884.1

—— On manufactured food for trout and carp. Bull. U. S. Fish Comm. 1884, **4**, 453–455. 1884.2

—— Pond culture. Rept. U. S. Fish Comm. 1884 (1886), **12**, 467–655. 44 figs. 1886.1

—— Lehrbuch der Teichwirthschaft. 2. ed. Stettin [1898?] 8°. 1898.1

Nicklès, *F. J. Jérôme.* Sur la mortalité des poissons à la suite des pluies d'orage. Bull. Soc. Acclim. Paris, 1868, 2. sér. **5**. 1868.1

Nickles, *John M.* Bibliography of North American geology for 1908 with subject index. Bull. U. S. Geol. Surv., 1909, no. 409. 148 p. 8°. 1909.1

For similar annual reference lists, including titles of papers on fossil fishes, *see* under the name of **Weeks,** *F. B., infra.*

—— Bibliography of North American geology for 1909, with subject index. Bull. U. S. Geol. Surv., 1910, no. 444. 174 p. 8°. 1910.1

—— Bibliography of North American geology for 1910, with subject index. Bull. U. S. Geol. Surv., 1911, no. 495. 179 p. 8°. 1911.1

—— Bibliography of North American geology for 1911, with subject index. Bull. U. S. Geol. Surv., 1912, no. 524. 162 p. 8°. 1912.1

—— Bibliography of North American geology for 1912, with subject index. Bull. U. S. Geol. Surv., 1913, no. 545. 192 p. 8°. 1913.1

—— Bibliography of North American geology for 1913, with subject index. Bull. U. S. Geol. Surv., 1914, no. 584, 1–183. 1914.1

—— Bibliography of North American geology for 1914, with subject index. Bull. U. S. Geol. Surv., 1915, no. 617. 167 p. 8°. 1915.1

—— Bibliography of North American geology for 1915, with subject index. Bull. U. S. Geol. Surv., 1916, no. 645. 144 p. 8°. 1916.1

Nickles, *John M.,* & **Weeks,** *F. B.* *See* **Weeks & Nickles.**

Nicloux, *Maurice.* L'oxyde de carbone dans le sang des poissons. Bull. Mus. Hist. Nat. Paris, 1902, **8**, 542–543. — C. R. Mém. Soc. Biol. Paris, 1902, **54**, 1169. 1902.1

Nicloux, *Maurice,* & **Camus,** *Lucien.* *See* **Camus & Nicloux.**

Nicolai, *E. von.* *Haplochilus rubrostigma,* v. *rubropictus* v. *rubropunctatus?* Prakt. Zierfischzüchter, 1910, 59. 1910.1

—— *Tilapia zilli,* der Rotbrust-Cichlide. Prakt. Zierfischzüchter, 1910, 45–48; 53–54. 1910.2

—— Zierfischzuchten im Winter. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 60–62. fig. 1914.1

Nicolai, *Georg Friedrich.* Ueber die Leitungsgeschwindigkeit im Riechnerven des Hechtes. Arch. Anat. Physiol. (*Phys. Abth.*), 1904, 578–579. — Arch. Gesamt. Physiol. (Pflüger), **75**, 65–85. 2 pls. Also separate; Altenberg, 1901. 27 p. 2 pls. 1901.1

—— Ueber Ungleichförmigkeiten in der Fortpflanzungsgeschwindigkeit des Nervenprincips, nach Untersuchungen am marklosen Riechnerven des Hechtes. Arch. Anat. Physiol. (*Physiol. Abth.*), 1905 (Suppl.), 341–388. 3 pls. 1905.1

Nicolaides, *R.,* & **Kronecker,** *H.* *See* **Kronecker & Nicolaides.**

Nicolas, *A.* Recherches sur le développement du pancréas, du foie et de la rate chez le sterlet (*Acipenser ruthenus*) Arch. Biol. 1904, **20**, 425–460. 3 pls. — C. R. Assoc. Anat., Nancy, 1903, 14–16. 1904.1

Nicolas, *Charles.* Remarques sur quelques poissons dits vénéneux. Bull. Soc. Pathol. Exotique, Paris, 1909, **2**, 214–216. 1909.1

Nicolas, *J.,* & **Lesieur,** *Charles.* Effets de l'ingestion de crachats tuberculeux humains chez les poissons. C. R. Mém. Soc. Biol. Paris, 1899, 774. 1899.1

L'évolution des deux ébauches ventrales du pancréas chez le sterlet coïncide avec le que l'on sait de leur développement chez certains ganoïdes et chez les téléostéens.

Nicolis, *Enrico*. Oligocene e Miocene nel sistema de monte Baldo (Prealpi Retiche) Accad. Agric. Arti e Com. Verona, 1884. Also separate; Verona, 1884. 48 p. 3 pl. 8°. 1884.1

Contains mention of fossil fishes.

—— Sopra uno scheletro di teleosteo dell' Eocene d'Avesa. Verona, 1888. pl. 8°. 1888.1

—— Sopra uno scheletro de teleosteo scoperto nell' Eocene medio di valle d'Avesta. Academia d'Agricoltora, Arti e Commercio di Verona, 1890, 3. ser. **45**, no. 5. pl. 1890.1

—— Del museo Gazoliano. Relazione all' illustrisimo Avv. Comm. Augusto Caperle, sindaco di Verona [Privately published] Verona, 1893. 14 p. 4°. 1893.1

Relates to Eocene fishes of monte Bolca, near Verona.

Nicoll, *William*. A contribution towards a knowledge of the entozoa of British marine fishes. Part II. Ann. Mag. Nat. Hist., 1909, **4**, 1–25. pl. 1909.1

—— The entozoa of fishes from the firth of Clyde. Parasitology, 1910, **3**, 322–359. pl. 1910.1

Nicols, *Arthur*. Phosphorescence in fish. Nature, 1872, **6**, 473. 1872.1

—— Abnormal coloration in fish [Pleuronectidæ] Nature, 1873, **8**, 46. 1873.1

—— The acclimatisation of the Salmonidæ at the antipodes. Its history and results. London, 1882. 238 p. 8°. 1882.1

Nicolucci, *Giustiniano* [1819 —] Intorno alla vescichetta proligera ed allo strato germinativo osservati nei pesci da F. Cavolini. Nuov. Ann. Sci. Nat. Bologna, 1844, 2. ser. **2**, 184–192. 1844.1

Niebuhr, *Carsten* [1783–1815] (*editor*) [Forskåli Petri] Descriptiones animalium, avium, amphibiorum, piscium, insectorum, vermium, quæ in itinere orientali observavit. Post mortem auctoris edidit Carsten Niebuhr. Havniæ, 1775. 164 p. 43 pls. map. 4°. 1775.1

For comment on this work by D. S. Jordan, *see* under Forskål, P., 1775.1, *ante*.

—— Icones rerum naturalium, quas in itinere orientali depingi curavit P. Forskål. Post mortem auctoris edidit Carsten Niebuhr. Havniæ, 1776. fol. 1776.1

Niedzwiedzki, *J*. *Cephalaspis powriei* i *asper* Ray Lank. Kosmos Polski. Towarz. Przyrod. Kopernika, Lemberg, 1903, **28**, 564–565. 1903.1

Nielsen, —— De gamle jægere paa Hardangervidden. Norsk Historisk Tidsskr., 1909, 4. ser. **5**, 573. 1909.1

Niemiec, *J*. Recherches sur les ventouses dans le règne animal. Rec. Zool. Suisse, 1885, **2**, 1–147. 4 pls. 1885.1

Nienhaus-Meinau, *C*. Bericht über die Verunreinigung des Rheines durch Abfallstoffe der Fabriken im Basler-Industrie-Bezirk. Basel, 1883. 60 p. 8°. 1883.1

Nies, *F*. Photographie von Cestracion. Neues Jahrb. Mineral., 1873, 945–946. 1873.1

—— Die Bezahnung von *Cestracion philippi* Cuvier als paläontologisches Demonstrationsmittel. Würzburg, 1874. fig. 4°. 1874.1

Nieselt, *Ernst*. *Haplochilus rubrostigma*. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 456–457. 1910.1

Niewenglowski, *G. H*. Les prétendues migrations du thon méditerranéen. Cosmos, Paris, 1913, n. s. **68**, 271–273. 1913.1

Niezabitowski, *Edward Lubicz*. Przyczynek do fauny kregowéow Galicyi. Sprawozd. Kom. Fizyjogr. Krajowej, 1901, **35**, 102–128. 1901.1

—— Notice sur la truite du lac "Morskie Oko" [Text in Polish] Okóln. Krajow. Towarz. Ryback. Kraków., 1902, 225–231. pl. 1902.1

Nikishin, *V. G*. Zur Frage über die Nahrung der Fische [Text in Russian] Arbeit. Ichthyol. Lab. Kasp. Fisch. Verwalt. Astrachan, 1909, **1**, pt. 1, 1–44. 1909.1

Nikitin, *S*. Notes sur les modes de propagation des poissons des eaux douces. Bull. Soc. Nat. Moscou, 1889, 425–435. 1889.1

Nikitin, *S. F*., & **Chlopin,** *G. W*. *See* **Chlopin & Nikitin.**

Nikolskiĭ, *Aleksandr Mikhailovich* [1858 —] Bemerkungen über einige Fische des Balchasch-Beckens. Bull. Acad. Sci. St. Pétersb., 1886, **30**, 12–14. 1886.1

—— On fishing in the waters of the Aral basin [Text in Russian] Bull. Russ. Geogr. Soc., 1887, **23**, 1–17. 1887.1

Nikolskii, *A. M.*

—— On the vertebrate fauna of the Balkhat basin [Text in Russian] Trav. Soc. Imp. Sci. St. Pétersb., 1887, **19**, 59–188. 1887.2
Pisces, p. 104–130.

—— The island Sakhalin and its fauna of vertebrate animals [Text in Russian] Mém. Acad. Sci. St. Pétersb., 1889, **60**, no. 5, 292–305. 1889.1
Pisces, p. 292–305.

—— On the correlation between the shape of the body of fishes and the strength of the current of streams [Text in Russian] Rev. Sci. Nat. St. Pétersb., 1891, 137–139. 1891.1

—— Vertebrates of the Crimea [Text in Russian] Mém. Acad. Sci. St. Pétersb., 1891, no. 4, 436–450. 1891.2

—— Significance of naphtha in the life of fishes of the river Volga [Text in Russian] Industrie de la Pêche, 1893, no. 15, 260–288. 1893.1

—— *Acipenser stenorhynchus*, sp. nov. [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1896, **1**, 400–405. 1896.1

—— Reptiles, amphibia and fishes collected by N. A. Zarudnyj in eastern Persia [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1897, **2**, 35–43; 306–348; 375–417. 1897.1

—— On the question of influence of naphtha upon fishes [Text in Russian] Travaux Soc. Nav., 1898, 1–31. 1898.1

—— Seagoing fishermen of Astrakhan [Text in Russian] Travaux Soc. Nav., 1898, 1–174. fig. 1898.2

—— Reptiles, amphibia and fishes of the second expedition of N. A. Zarudnyj to Persia [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1899, **4**, 33–43. 1899.1

—— A new Discognathus from Russia [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1900, **5**, 239–241. 1900.1

—— *Pseudoscaphirhynchus rossikowi*, n. gen. et n. sp. [Text in Russian] Ann. Zool. Mus. Acad. Imp. Sci. St. Pétersb., 1900, 5. 1900.2

—— Reptiles, amphibians and fishes collected on the expedition of Mr. N. A. Zaroudny to Persia in 1898 [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1900, **5**, 375–417. pl. 1900.3

—— Kriechtiere und Fische nach Brehm und anderen Quellen. Parts i–iv [Text in Russian] St. Petersburg, 1902. 656 p. 70 pls. & 357 figs. 8° (Naturwissenschaftliche Bibliothek herausgegeben von Brockhaus und Efron) 1902.1

—— Reptiles and fishes [Text in Russian] St. Petersburg, 1902. illust. 8°. 1902.2

—— Sur une nouvelle espèce de poisson provenant de la région de l'Altai, *Oreoleuciscus ignatowi*, sp. nov. [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1902, **7**, 188–190. 1902.3

—— New specimens of fishes from central Asia [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1903, **8**, 90–99. 1903.1

—— New specimens of fishes from eastern Asia [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1903, **8**, 356–363. 1903.2

—— On three new species of fishes from central Asia: *Schizothorax kozlovi, Ptychobarbus kaznakovi, Nemachilus fedtschenkoæ*, sp. nov. [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1903, **8**, 90–94. 1903.3

—— Neue Fischarten aus Ostasien [Text in Russian] Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersb., 1904, **8**, 356–363. 1904.1

Nilsson, *D.* A contribution to the biology of the mackerel; investigations in Swedish waters. Publ. Circ., Copenhague, 1914, **69**, 68. 1914.1

Nilsson, *Sven* [1787–1883] Observationes ichthyologicæ. Lundæ, 1832. 8°. 1832.1

—— Prodromus ichthyologiæ Scandinavicæ. Lundæ, 1832. iv, 124 p. 4°. 1832.2

—— Ueber die Lachsarten Schwedens, aus dem Schwedischen von F. C. H. Creplin. Arch. Naturgesch., 1849, 15. Jahrg., 305–311. 1849.1

—— Om *Sciæna aqvila*. Oefvers. Vet. Akad. Förh., 1853, **10**, 70. 1853.1

—— Skandinavisk fauna. Fjerde Delen: Fiskarna. Lund, 1855. xxxiv, 768 p. 8°. 1855.1

—— Om fossila saurer och fiskar, funna i Skånes kritformation. Oefvers. Vet. Akad. Förh., 1856, **13**, 47–49. — Zeitschr. Gesamt. Naturw., **8**, 504–507. 1856.1

—— Aufenthalt, Lebensweise und Fortpflanzung des Herings (uebersetzt aus seinem "Skandinavisk Fauna," Bd. iv) Zeitschr. Gesamt. Naturw., 1860, **16**, 1–15. 1860.1

—— Notice sur quelques poissons du sud qui se rencontrent parfois dans la mer du Nord. C. R. Acad. Sci. Paris, 1860, **51**, 212–213. — Rev. Mag. Zool., **12**, 415. 1860.2

—— Om en *Gymnetrus* [*Regalecus*] *grillii*, tagen vid en of Bermudasöarne. Oefvers Svensk. Vet. Akad. Förh., 1860, **17**, 183–186. 1860.3

—— Ueber die Gattung Coregonus Artedi (Uebersetzt aus seinem "Skandinavisk Fauna," Bd. iv) Zeitschr. Gesamt. Naturw., 1860, **16**, 31–48. 1860.4

—— Ueber einen *Gymnetrus* [*Regalecus*] *grillii*, gefangen bei einer der Bermudas-Inseln. Zeitschr. Gesamt. Naturw., 1860, **16**, 334–337. — Notizen Gebiet. Natur. Heilk. (Froriep), 1861, **2**, 373–378. 1860.5

—— Aufenthalt, Lebensweise, Ursprung und Fortpflanzung des Süsswasser-Aales. Zeitschr. Acclim., 1861, **4**, 78–95. — Zeitschr. Gesamt. Naturw., 1860, **16**, 15–31. 1861.1

—— Två för Skandinaviska faunan nya fiskar af makrill-familjen; jemte några andra till vår fiskfauna hörande iakttagelser (*Thynnus thunnina*) Oefvers. Svensk. Vet. Akad. Förh. 1863 (1864), **20**, 499–503. 2 pls. 1864.1

Ninni, (*Conte*) *Alessandro Pericle* [1837–1892] Osservazioni sopra un pesce del genere Lepidopus pescato nel Quarnero, nel 1860. Atti R. Istit. Veneto, 1862, 3. ser. **7**, 849–862. 1862.1

—— Cenni sui pesci della provincia di Treviso e sulla introduzione in essa della piscicoltura. Venezia, 1863. 1863.1

—— (*editor*) Commentario della fauna, flora e gea del Veneto e del Trentino. Anno 1, nos. 1 & 2, 1867–69. 1867.1

Periodico trimestrale publicato per cura . . . A. P. Ninni, etc. Contains several ichthyological notices.

—— Sulla mortalità delle anguille. Atti Mem. R. Soc. Agraria Gorizia, 1868, **4**, 1–4. 1868.1

—— Nota sopra il *Gobius punctatissimus* Canestrini. Comm. Fauna, Flora e Gea, 1869. 1869.1

—— Enumerazione dei pesci delle lagune e golfo di Venezia, con note. Ann. Soc. Nat. Modena, 1870, **5**, 63–88. 1870.1

—— Rivista critica delle specie dei pesci adriatici descritti nell' opera MS. dell' Abate St. Chiereghini di Chioggia. Venezia, 1872. 1872.1

—— Sopra la causa che impedisce il libero esercizio della pesca lungo le coste Venete. Giorn. Padova, 1872, 196–198. 1872.2

—— Sui pesci, che prolificano nella laguna di Venezia, e principalmente su quelli che fabbricano un nido. Atti Soc. Sci. Nat. Padova, 1872, **1**, 92–96. pl. 1872.3

—— Materiali per la fauna veneta: Chiroptera, Callionymus, Zeus, Gadus. Atti R. Istit. Venet. Sci., 1877–78, 5. ser. **4**. Also separate; Venezia, 1878. 1877.1

—— Saggio dei prodotti e della industria della pesca nelle lagune e nel mar di Venezia, inviato alla Esposizione Internazionale della Pesca in Berlino. Esposiz. Intern. Pesca Berlino, 1880 (Sez. Ital. Catalogo), 169–187. 1880.1

—— Nota sull' *Aphya phalerica* Rd. Venezia, 1881. 1881.1

—— Appendice alla mia nota sugli Anacanthini. Milano, 1882. 1882.1

—— Gli Anacanthini del mare Adriatico. Atti Soc. Ital. Sci. Nat. Milano, 1882, **23**, 75–96. *Ibid.*, 1883, **25**, 135–141. 1882.2

—— Nuova specie di Gobius [*G. canestrinii*] Atti Soc. Sci. Nat. Padova, 1882, **8**, 276–279. 1882.3

—— Sopra una forma di tonno nuova per l'Adriatico. Venezia, 1882. 1882.4

—— Catalogo dei ghiozzi (Gobiinæ) osservati nell' Adriatico e nelle acque dolce del Veneto. Atti Soc. Nat. Modena, 1883, **1**, 221–226. 1883.1

—— Lettera accompagnante il dono al museo zoologico del R. Ist. Veneto di due esemplari femmina di *Mugil barbatus* con uova mature. Venezia, 1883. 1883.2

Ninni, *A. P.*

—— Fish and oyster culture in the province of Venice. Bull. U. S. Fish Comm. 1886 (1887), **6**, 177–186. 1887.1

—— Comparsa di numerosi esemplari di *Seriola dumerilii* sul mercato di Venezia. Siena, 1889. 1889.1

Ninni, *Alessandro Pericle,* & **Trois,** *E. F.* Catalogo dei pesci nella monografia della provincia di Venezia. Venezia, 1880. 1880.1

Ninni, *Emilio.* Sulle comparse del *Luvarus imperialis* nel mare di Venezia. Neptunia, Venezia, 1900. 1900.1

—— La pesca a fagia. Neptunia, Venezia, 1901. 1901.1

—— La trata de mar (pesci) Neptunia, Venezia, 1903. 1903.1

—— Sopra alcuni "pesci mostruosi" raccolti nelle valli del Veneto esturio. Boll. Soc. Zool. Ital., Roma, 1903, 2. ser. **4**, 117–121. 3 figs. 1903.2

—— Sopra una nuova forma di metacromatismo in un *Pleuronectes italicus.* Neptunia, Venezia, 1903. 1903.3

—— Sulla *Scorpæna ustulata* Lowe nel mare Adriatico. Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1903, **42**, pt. 1, 54–57. 3 figs. 1903.4

—— Collezioni didattiche della scuola di pesca. Venezia, 1904. 1904.1

—— Sulla cattura di un *Echinorhinus spinosus* nel mare di Venezia. Neptunia, Venezia, 1904. 1904.2

—— Sopra due casi d'arresto della migrazione oculare (*Pleuronectes italicus* Günth. e *Solea vulgaris* Quens.) Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1906, **44**, 193–197. fig. 1906.1

—— Straordinaria comparsa di pesci piloti, *Naucrates ductor* L. in Venezia. Neptunia, Venezia, 1906, **21**, 208–209. 1906.2

—— I pesci e la pesca d' acqua dolce nelle province di Venezia e Trevito. Venezia, 1907. 76 p. 1907.1

—— Metacromatismi in pesci raccolti nel mare e lagune di Venezia. Atti Congr. Natural. Ital. Milano 1906 (1907), 585–589. 1907.2

—— Sopra una nuova forma di metacromatismo. Neptunia, Venezia, 1908. 1908.1

—— Considerazioni sul genere Mugil. Atti Ateneo Veneto, 1909. pl. 1909.1

—— Quistione di pesca. Pesca del pesce novello. Sull' uso dei "teloni." Rivist. Mens. Pesca, Napoli, 1909, **11**, 116–119. 1909.2

—— Mostruosità in un' anguilla. Riv. Ital. Sci. Nat. Siena, 1910, **30**, 153–154. fig. 1910.1

—— Catalogo dei pesci del mare Adriatico. Venezia, 1912. vii, 271 p. 1912.1

The most complete faunal list of the fishes of the Adriatic that has been published. Brief descriptions are given of all the species, and their vernacular names in Italian, French, German and English are set forth. A bibliography of systematic works is appended.

—— Di un caso di metacromatismo in una anguilla. Rivist. Mens. Pesca, Pavia, 1912, **7**, 207–208. 1912.2

Nishikawa, *T.* For memorial notice, *see* Dean, Bashford, in Science, 1909, n. s. **30**, 750.

—— On a mode of the passage of the eye in a flatfish. Annot. Zool. Japon., Tokyo, 1897, **1**, 73–76. 2 figs. 1897.1

—— Notes on some embryos of *Chlamydoselachus anguineus* Garm. Annot. Zool. Japon., Tokyo, 1898, **2**, 95–102. pl. & 5 figs. 1898.1

—— Report of investigations on *Engraulis japonicus* [Text in Japanese] Suisan Chōsa Hōkoku, Tōkyō, 1901, **10**, 1–16. pl. 1901.1

—— Development of the sardine, *Clupea melanosticta* [Text in Japanese] Suisan Chōsa Hōkoku, Tōkyō, 1904, **12**, pt. 2, 1–5. pl. 1904.1

—— Uki-Tai [The floating Pagrus] Dōbuts. Zasshi, Tōkyō, 1904, **16**, 363–370. 1904.2

Nissl, *Karl.* Ueber künstliche Fischzucht. Natur (Müller), 1877, n. s. **3**, 155–157; 169–171; 229–231. 1877.1

—— Ueber die Nomenklatur in der Nervenzellenanatomie und ihre nächsten Ziele. Neurol. Centralbl., 1895. 1895.1

Nitsche, *Heinrich.* Die Süsswasserfische Deutschlands. Ihre Kennzeichen, Fortpflanzung, Verbreitung und wirtschaftliche Bedeutung, im Auftrage des Deutschen Fischerei-Vereines gemeinfasslich kurz zusammengestellt. Zeitschr. Fischerei, 1898, **6**, 65–138. figs.

Review in Fiskeritidskr. Finl., 1899, 50. 1898.1

—— Die Süsswasserfische Deutschlands, ihre Kennzeichen, Fortpflanzung, Verbreitung und wirtschaftliche Bedeutung. Im Auftrage des Deutschen Fischereivereins gemeinfasslich kurz zusammengestellt, neubearbeitet und vermehrt. Berlin, 1909. 83 p. illust. 8°. 1909.1

Nitsche, *Heinrich,* & **Leuckhart,** *C. G. F. R. See* **Leuckart & Nitsche.**

Nitsche, *P.* Die Zucht des Schleierschwanzes und des Teleskopfisches in Zimmer und Garten. Zool. Garten, 1892, **33**, 289–300; 336–348. 1892.1

—— Der Import von lebenden Fischen. Rathschläge und Winke für die Einführung von Reptilien, Amphibien, Seewasserthieren und Wasserpflanzen für Aquarien und Terrarienzwecke. Berlin, 1901. 112 p. 8°. 1901.1

Nixon, *Père.* Fish-culture in Pennsylvania. Forest & Stream, 1874, **4**, 53. 1874.1

Nobis, *Johann. Hemirhamphus fluviatilis,* seine Behandlung und Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 717. fig. 1913.1

Nobre, *A.* Contribuição para a aquicultura do norte de Portugal. Instit. Coimbra, 1893, 532–607. 1893.1

—— Estudos sobre a fauna aquatica dos rios do norte de Portugal. Ann. Sci. Nat., Porto, 1894, **1**, 151. 1894.1

—— A desova de alguns peixes na costa de Matozinhos. Ann. Sci. Nat., Porto, 1895, **2**, 180. 1895.1

—— A pesca do savel (*Alosa vulgaris*) e da sardinha (*Alosa pilchardus*) na bahia do Douro. Ann. Sci. Nat., Porto, 1895, **2**, 179. 1895.2

—— La sardine sur la côte de Porto durant la campagne de 1894–1895. Ann. Sci. Nat., Porto, 1895, **2**, 107–113. 1895.3

—— Notas sobre o desenvolvimento das larvas dos Blennius. Ann. Sci. Nat., Porto, 1895, **2**, 163–166. pl. 1895.4

—— Notes sur les poissons de l'Algarve. Ann. Sci. Nat., Porto, 1895, **2**, 223–232. 1895.5

—— Remarques sur le *Centrina salviani* Risso. Ann. Sci. Nat., Porto, 1895, **2**, 175. 1895.6

—— Trabalhos do laboratorio maritimo de Leça da Palmeira. Ann. Sci. Nat., Porto, 1896, **4**, 46. 1896.1

—— Le chalutage sur les côtes de Porto. Les zones littorales des côtes de Porto, etc. C. R. Congr. Intern. Pêches Maritimes, Sables d'Olonne. 1897. 1897.1

—— Annuario de Museu de zoologia da Academia Polytechnica do Porto. Porto, 1903. 1903.1

Contains some mention of fishes.

—— Fauna aquicola de Portugal. Boletim. Annuario de Direcção Geral Agricultura, serviços florestaes 1904–1905. Lisbon, 1909. 1909.1

Noé, *J.* Variation avec l'habitat de la résistance des poissons à l'asphyxie dans l'air. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 1049–1051. 1893.1

Noé, *J.,* & **Dissard,** *A.* Déterminisme de l'homochromie chez les poissons. C. R. Mém. Soc. Biol. Paris, 1894, 9. sér. **6**, 101–102. 1894.1

—— Résistance des poissons aux substances toxiques. C. R. Mém. Soc. Biol. Paris, 1894, 9. sér. **6**, 140–141. 1894.2

—— Sédentarité des poissons électriques. C. R. Mém. Soc. Biol. Paris, 1894, 9. sér. **6**, 190. 1894.3

Noël, *Eugène.* Pisciculture, pisciculteurs et poissons. Paris, 1856. 99 p. 12°. 1856.1

Noël, *Eugène* & **Mesaize,** —— *See* **Mesaize & Noël.**

Noël de la Morinière, *Simon Barthélemy Joseph.* Prospectus de l'histoire naturelle du hareng et de sa pêche. Rouen, 1789. 4°. 1789.1

—— Des migrations du hareng. Magaz. Encycl. (Millin), 1795, **6**, 5–22. 1795.1

—— Histoire naturelle de l'éperlan de la Seine Inférieure. Rouen, An VI [1798] 8°. 1798.1

—— Sur les moyens et les avantages de naturaliser, dans les eaux douces des fleuves, des poissons originaires des eaux salées. Bull. Soc. Philom. Paris, 1800, **2**, 82–83. 1800.1

—— On the means to be employed for multiplying fish. Phil. Mag., 1801, **10**, 159–165. 1801.1

Refers to the experiments of Benjamin Franklin and observations of Liancourt on the herring of the Potomac, Hudson, Delaware and Elk rivers.

Noël de la Morinière, *S. B. J.*

—— Observations sur l'ascaride du clupée hareng. Trav. Acad. Sci. Rouen, 1804, 81. 1804.1

—— Mémoire sur les différents bateaux et barques employés à la pêche du hareng par les nations européennes. Mém. Inst. Sci. Savans Paris, 1806, **1**, 229–250. 1806.1

—— Mémoire sur la feinte, *Clupée feinte* (*Alosa picta* auctorum) Mag. Ges. Naturf. Freunde Berlin, 1810, **4**, 310–314. 1810.1

—— Natural history, economical and political, of useful fishes; preceded by that of the morse, seal and whale families of animals. Review in Med. Repository, New York, 1811, n. s. **2**, 410–412. 1811.1

—— Histoire générale des pêches anciennes et modernes, dans les mers et les fleuves des deux continens. Paris, 1815. 4°. 1815.1

Nöldeke, *B.* Die Herkunft des Endocardepithels bei *Salmo salar*. Zeitschr. Wiss. Zool., 1899, **65**, 517–528. pl. 1899.1

Nöldeke, *Theodor.* Orientalische Studien, Theodor Nöldeke zum siebenzigsten Geburtstag gewidmet, etc. Leipzig, 1906. 1906.1

Aramäische Fischnamen, von Immanuel Löw, p. 549–570.

Nölke, ——, & **Hagemann,** —— Zucht von *Rhodeus amarus*. Gegenseitiges Verhältnis von Muscheln und Fischen. 58. & 59. Jahresber. Nat. Ges. Hannover, 1910, 81–82. 1910.1

Noetling, *Fritz.* Die Fauna des samländischen Tertiärs. [Pisces] Abh. Geol. Spec. Preuss., 1885, **6**, pt. 3, 3–106. With atlas of 11 pls. 1885.1

—— [Vorlegung einiger fossiler Haifischzähne] Sitzber. Ges. Naturf. Freunde Berlin, 1886, 13–17. 3 figs. 1886.1

Noetzel, *Theodor.* Die Zucht von *Trichogaster fasciatus* im Aquarium. Blätt. Aquar.-Terrar. Freunde, 1898, 9. Jahrg., 130–131; 163–164. 1898.1

—— Zur Zucht von *Betta pugnax*. Blätt. Aquar.-Terrar. Freunde, 1898, 9. Jahrg., 139–140. 1898.2

Noguès, *A. F.* Note sur une nouvelle espèce de Gyrodus (*Gyrodus gobini*) des environs de Seyssel. C. R. Acad. Sci. Paris, 1863, **57**, 913–915. — Ann. Sci. Phys. Nat. Lyon, 1863, 3. sér. **7**, 476–480. 1863.1

Nolan, *Edward J.* An index to the scientific contents of the Journal and Proceedings of the Academy of Natural Sciences of Philadelphia, 1812–1912. Philad. Acad. Nat. Sci. 1913, **14**, 1–1420. 1913.1

Nolf, *P.* La coagulation du sang des poissons. Arch. Intern. Physiol., 1906, **4**, 216–259. 1906.1

—— Contribution à l'étude de la coagulation du sang (7. mémoire) La coagulation du sang des poissons. Arch. Intern. Physiol., 1909, **7**, 379–410. 1909.1

Noll, *F. C.* Bitterling und Malermuschel [*Rhodeus amarus* und Unio] Zool. Garten, 1869, 10. Jahrg., 257–265. pl. *Ibid.*, 1870, 11. Jahrg., 237–238. 1869.1

—— Der Bitterling, *Rhodeus amarus*, im Herbste laichend. Zool. Garten, 1870, 11. Jahrg., 131. 1870.1

—— Fluszaquarien. Zool. Garten, 1870, 11. Jarhg., 6–9. 1870.2

—— Der Stör im Rhein und Main. Zool. Garten, 1871, 12. Jahrg., 180–183. 1871.1

—— Die Salm-Fischerei bei St. Goar. Zool. Garten, 1874, 15. Jahrg., 447–454. 1874.1

—— Gewohnheiten und Eierlegen des Bitterlings [*Rhodeus amarus*] Zool. Garten, 1877, 19. Jahrg., 351–362. 1877.1

—— Der Teleskopfisch. Zool. Garten, 1878, 19. Jahrg., 359–362. fig. 1878.1

—— Ueber Bau und Lebensweise der Seepferdchen und Seenadeln. Ber. Senckenberg. Naturf. Ges. 1877–78 (1879), 139–140. 1879.1

—— Ueber einen grossen, seit 1839 gezüchteten Karpfen. Ber. Senckenberg. Naturf. Ges. 1877–78 (1879), 138–139. 1879.2

—— Ein achtunddreissigjähriger Karpfen. Zool. Garten, 1882, 23. Jahrg., 225–234. 1882.1

Nollet, —— Können die Fische hören und pflanzt sich der Schall durch das Wasser fort? Annal. Physik (Gilbert), 1813, **44**, 346–361. 1813.1

Noorden, *Carl von.* Die Entwickelung des Labyrinthes bei Knochenfischen. Arch. Anat. Physiol. (*Anat. Abth.*), 1883, 235–264. pl. 1883.1

1. Anatomie des Gehörorgans beim erwachsenen Knochenfisch. 2. Literatur zur Entwickelung der Bogengänge. 3. Die morphologischen Vorgänge bei der Bildung des Labyrinthes. 4. Histologische Vorgänge bei der Bildung der Bogengänge. 5. Die morphologischen Vorgänge bei der Bildung des Labyrinthes.

Norbäck, *Oskar Gustaf.* Fiske och fiskeafvel. Sporten, 1886, **6**, 19–22; 29–30; 38–40; 59–61; 65–66. 6 figs. 1886.1

Nordenskiöld, *Adolf Erik.* Redogörelse för den svenska polarexpeditionen år 1872–1873. Oefvers. Svensk Vet. Akad. Förh., 1875, **2**, no. 18, 1–132. pl. & map. 1875.1

Pisces, p. 104.

—— Redogörelse för en expedition till mynningen af Jenissej och Sibirien år 1875. Oefvers. Svensk Vet. Akad. Förh., 1877, **4**, no. 1, 1–114. 1877.1

Pisces, p. 27–28; 64; 74–76.

—— Vegas färd kring Asien och Europa, jämte en historisk återblick på föregående resor längs Gamla världens nordkust. 2 pts. Stockholm, 1880–81. 8°. 1880.1

Pisces, pt. i, p. 308; 436; 464–465; 477–478. *Ibid.*, pt. ii, p. 27; 60; 62–64; 294.

—— The voyage of the "Vega" round America and Asia, translated by Alexander Leck. New York, 1882. 756 p. illust. 8°. 1882.1

—— Den andra Dicksonska expeditionen till Grönland, dess inre isöken och dess ostkust. Stockholm, 1885. 546 p. fig. 5 maps. 8°. 1885.1

Pisces, p. 267.

Nordenskjöld, *Nils* [*Otto*] *Gustaf* [1869 —] Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition, 1901–1903, unter Mitwirking zahlreicher Fachgenossen, herausgegeben durch O. Nordenskjöld, Leiter der Expedition. 5 vols. Stockholm, 1905–16. 4°. 1916.1

Bd. iii, Lief. 4. On fossil fish-remains from Snow Hill and Seymour islands, by A. S. Woodward.

Bd. v, Lief. 6. The fishes, by E. Lönnberg.

Nordenson, *J. W.* Die Nerven und Gefässe der paarigen Flossen von *Gadus callarias* L. Arkiv Zool. Stockholm, 1910, **6**, no. 6, 1–22. pl. & 5 figs. 1910.1

Nordgaard, *O.* 1ste–2den beretning om de ved Bergens biologiske station foretagne udklædningsforsøg med Lakse- og Søørstrogn i saltvand og brak. Bergens Mus. Aarbog, 1896, no. 4, 1–21. *Ibid.*, 1899, no. 8, 1–9. 1896.1

With an English summary to first report. Notices in Nat. Science, 1897, **10**, 294. — Etangs & Rivières, 1897, 115–116.

—— Action de l'eau salée ou saumâtre sur les œufs de saumon et de la truite de mer. Abstract in Etangs & Rivières, 1897, **10**, 114. 1897.1

—— Udklækningsforsøg med lakse- og Søørretrogn i salt-og brakvand. Bergen, 1897. 8°. 1897.2

—— Oplysninger om seiens vekst og aate [with an English summary] Bergens Museums Aarbog, 1901, no. 3, 1–20. — Review in Nature, **65**, 474. 1901.1

—— Fedsilden og nedbøren [The fat herring and the rainfall] Norsk Fiskerit., Bergen, 1905, **24**, 403–414; 464–474; 523–527. *Ibid.*, 1906, **25**, 56–66; 93–101. 1905.1

—— Hydrographical and biological investigations in Norwegian fiords. Bergen Mus. Marine Invest., 1905, **2**, 3–253. 1905.2

—— Flyndre i Snaasen vandet [Flounders in Snaasen lake] Norsk Fiskerit., Bergen, 1906, **25**, 101–103. 1906.1

—— Lidt om ueren *Sebastes marinus.* Naturen, Bergen, 1906, **30**, 241–242. 1906.2

—— Iagttagelser over sildens aate [Beobachtungen über den Mageninhalt des Herings] Kgl. Norske Vid. Selsk. Skrift., Trondhjem, 1907, no. 2, 1–17. 1907.1

—— Træk af fiskeriets utvikling i Norge. I. [Zur Geschichte der Entwickelung der Fischerei in Norwegen] Kgl. Norske Vid. Selsk. Skrift., Trondhjem, 1908, no. 1, 1–117. 76 figs. 1908.1

—— Beretning om forsøk med utklækning av guldflyndre (*Pleuronectes platessa* L.) ved Trondhjems biologiske station i aarene 1908 og 1909. Kgl. Norske Vid. Selsk. Skrift., Trondhjem, 1909, no. 7, 1–46. 1909.1

—— Lidt om guldflyndrens vandringer i Trondhjemsfjorden [Ueber die Wanderungen der Goldbutte im Drontheimfjord] Norsk Fiskerit., Bergen, 1909, **28**, 275–278. 1909.2

Nordgaard, *O.*

—— Bemerkninger om strømmens virkning paa fiskeries bevagelser. Kgl. Norske Vid. Selsk. Skrift., Trondhjem, 1910, no. 5, 1–16. 1910.1

—— Fiskerihistoriske grundtrok. Norges fiskerier ùtgit av forlaget Norge. Kristiania, 1911. 42 p. figs. 1911.1

—— Beretning om forsøk med utklækking av guldflyndre (*Pleuronectes platessa* Linn.) ved Trondhjems biologiske station i aarene 1910–1914. Kgl. Norske Vid. Selsk. Skrift. 1913 (1914), no. 6. 104 p. 37 figs. 1914.1

Nordhoff, *Charles.* The salmon of northern California. Amer. Sportsman, 1873, **3**, 103. 1873.1

—— Preparing salmon on the Columbia river. Forest & Stream, 1874, **1**, 397. 1874.1

Nordlund, *B. Fr.* Beskrifning öfver Nerpes socken. Suomi, 1866, **2**. ser. **5**, 1–143. 1866.1

Nordmann, *Alexander von.* Bericht an die kaiserliche Akademie der Wissenschaften, über eine neue Fischgattung (Hexacanthus) aus der Familie der Gobioiden. Bull. Acad. Sci. St. Pétersb., 1838, **3**, 328–332. Abstracts in Rev. Zool., 1838, 294. — Isis (Oken), 1839, 644–645. — L'Institut, 1838, **6**, 390. 1838.1

—— Observations sur la faune pontique (In Démidoff, A. de. Voyage dans la Russie méridionale et la Crimée, vol. iii. Paris, 1840. 32 col. pls.) 1840.1

"Pisces faunæ ponticæ," par A. de Nordmann.

—— En i Helsingfors yttre skärgård fångad sill- eller strömmingssort. Oefvers. Finsk Vet. Soc. Förh., 1853, **1**, 194. 1853.1

—— Några sällsyntare finska högre djurarter, tillhörande Universitetets zoologiska samlingar. Oefvers. Finsk Vet. Soc. Förh., 1855, **2**, 69–73. 1855.1

—— Notiz über die von der K. Russischen Geographischen Gesellschaft nach dem östlichen Sibirien unternommene wissenschaftliche Expedition. Oefvers. Finsk Vet. Soc. Förh., 1856, **3**, 141–148. 1856.1

—— *Salmo ferox* Jardine, från Uleåträsk. Oefvers. Finsk Vet. Soc. Förh., 1857, **4**, 22. 1857.1

—— Skrifvelse [från Nikolajevsk i Sibirien] från Dr. Radde. Oefvers. Finsk Vet. Soc. Förh., 1857, **4**, 70–75. 1857.2

—— Ueber den Fischfang und die Jagd der am Amur wohnenden Giljaken. Bull. Soc. Nat. Moscou, 1861, **34**, pt. 2, 227–260. 1861.1

—— En giftig fisk från Godahoppsudden. Oefvers. Finsk Vet. Soc. Förh., 1863, **5**, 160. 1863.1

—— Om Cyprinoideernas svalgtänder. Oefvers. Finsk Vet. Soc. Förh., 1863, **5**, 291–292. 1863.2

—— Fortsättning af naturhistoriska anteckningar om våren 1864. Oefvers. Finsk Vet. Soc. Förh., 1864, **6**, 149–150. 1864.1

—— Naturhistoriska observationer anstälda i botaniska trädgården och närliggande trakter om våren 1864. Oefvers. Finsk Vet. Soc. Förh., 1864, **6**, 63–64. 1864.2

—— *Abramis ballerus* L. och *Leuciscus erythrophthalmus* i Pyhäjärvi. Oefvers. Finsk Vet. Soc. Förh., 1865, **7**, 21–22. 1865.1

—— [En ljus färgvarietet af lake] Oefvers. Finsk Vet. Soc. Förh., 1865, **7**, 69. 1865.2

—— Fortsättning af naturhistoriska observationer anställda år 1864. Oefvers. Finsk Vet. Soc. Förh., 1865, **7**, 71–73. 1865.3

—— Strödda naturhistoriska anteckningar. Oefvers. Finsk Vet. Soc. Förh., 1866, **8**, 33–35; 58–60. 1866.1

Nordqvist, *Oscar Frithiof.* Atgärder för fiskeriernas skyddande mot industrin. Meddel. af inspektören för fiskerierna i Finland. I. Helsingfors, 1890. 115 p. 8°. 1890.1

—— Förslag till åtgärder för fiskeriernas höjande. Meddel. af Inspektören för fiskerierna i Finland. II. Helsingfors, 1890. 32 p. 8°. 1890.2

—— Ett och annat om rödingen. Fiskeritidskr. Finl., 1892, **1**, 64–66. 1892.1

—— Fiskodlingen. Fiskeritidskr. Finl., 1892, **1**, 166–167. 1892.2

—— Fiskvägen vid Gammelstadsfallet. Fiskeritidskr. Finl., 1892, **1**, 13. 1892.3

—— Några korta anvisningar i artificiel fiskafvel. Fiskeritidskr. Finl., 1892, **1**, 7–12. 1892.4

—— Om fiskets ordnande i Oestra Nylands skärgård. Fiskeritidskr. Finl., 1892, **1**, 127–131. 1892.5

—— Om fiskets ordnande i smärre sjöar. Fiskeritidskr. Finl., 1892, **1**, 3–7. 1892.6

—— Om fiskvägar. Fiskeritidskr. Finl., 1892, **1**, 143–148; 172–205. 48 figs. 1892.7

—— Om sälens utrotande i Oestersjön, Ladoga och Saima. Fiskeritidskr. Finl., 1892, **1**, 56–60. 1892.8

—— Tiden för fiskynglets utkläckning. Fiskeritidskr. Finl., 1892, **1**, 140. 1892.9

—— Bref från Amerika. I. Förenta Staternas Fiskerikommission. Fiskeritidskr. Finl., 1893, **2**, 48–53. 1893.1

—— Bref från Amerika. II. Förenta Staternas Fiskerikommissions laxodlingsanstalt vid Craigs brook, Maine. Fiskeritidskr. Finl., 1893, **1**, 65–73; 85–93. 8 figs. 1893.2

—— Bref från Amerika. III. Fiskeriafdelningen vid Världsutställningen i Chicago. Fiskeritidskr. Finl., 1893, **2**, 109–124. 1893.3

—— En amerikansk fiskart i Finland. Fiskeritidskr. Finl., 1893, **2**, 160–161. 1893.4

—— Forellodlingen i Finland. Fiskeritidskr. Finl., 1893, **2**, 145–146. 1893.5

—— Sik och gösodlingsanstalten i Detroit, Mich. Fiskeritidskr. Finl., 1893, **2**, 140–144; 148–155. 4 figs. 1893.6

—— Trybom, Filip: Fiskevård och fiskodling. Fiskeritidskr. Finl., 1893, **2**, 162. 1893.7

—— Bestyrelsens för fiskeriföreningen i Finland redogörelse öfver föreningens verksamhet under år 1893. Fiskeritidskr. Finl., 1894, **3**, 49–56. 1894.1

—— Breflåda [Laxens vandringar] Fiskeritidskr. Finl., 1894, **3**, 196. 1894.2

——Fiskepidemi. Fiskeritidskr. Finl., 1894, **3**, 145. 1894.3

—— Fisket i sjön Erie i Nord-Amerika. Fiskeritidskr. Finl., 1894, **3**, 154–159. 1894.4

—— Fiskodlingen i Finland. Fiskeritidskr. Finl., 1894, **3**, 29. 1894.5

—— Från Evois fiskeriförsöksstation. Fiskeritidskr. Finl., 1894, **3**, 142–143. 1894.6

—— Handlingar rörande laxfisket i Torneå elf enligt uppdrag af Kejs. Senaten för Finland utgifna. Helsingfors, 1894. 477 p. 8°. 1894.7

—— Några ord till svar om kräftans fridlysning. Fiskeritidskr. Finl., 1894, **3**, 78–80. 1894.8

—— Om befordrandet af fiskvägsanläggningar. Fiskeritidskr. Finl., 1894, **3**, 126–130. 1894.9

—— Om kräftan och dess fridlysning. Fiskeritidskr. Finl., 1894, **3**, 33–40. 1894.10

—— Om några olika nätbragders relativa skadlighet för fisket. Fiskeritidskr. Finl., 1894, **3**, 3–6. 1894.11

—— Shadodlingen i Amerika. Fiskeritidskr. Finl., 1894, **3**, 21–24. 1894.12

—— Some notes about American fish-culture. Bull. U. S. Fish Comm. 1893 (1894), **13**, 197–200. 1894.13

—— Strömmingsfisket. Fiskeritidskr. Finl., 1894, **3**, 195. 1894.14

—— Bestyrelsens för fiskeriföreningen i Finland redogörelse öfver föreningens verksamhet under år 1894. Fiskeritidskr. Finl., 1895, **4**, 51–61. 1895.1

—— Fiskevården och fiskodlingen i Nord-Amerika. Berättelse afgifven till Kejs. Senaten för Finland. Meddel. af Inspektören för fiskerierna i Finland. III. Helsingfors, 1895. 114 p. 20 pls. 1895.2

——Fiskodlingen. Fiskeritidskr. Finl., 1895, **4**, 13–14. 1895.3

—— Några drag ur laxens naturhistoria. Fiskeritidskr. Finl., 1895, **4**, 187–190. 1895.4

—— Odling och märkning af Ladogalax. Fiskeritidskr. Finl., 1895, **4**, 14. 1895.5

—— Om odling af sutare [lindare] Fiskeritidskr. Finl., 1895, **4**, 47. 1895.6

—— Regnbågsforellen. Fiskeritidskr. Finl., 1895, **4**, 103. 1895.7

—— Some notes about American fish-culture. Bull. U. S. Fish Comm. 1893 (1895), **13**, 197–200. 1895.8

Nordqvist, *O. F.*

—— Berättelse öfver fiskeriföreningens i Finland verksamhet under år 1895. Fiskeritidskr. Finl., 1896, **5**, 65–72. 1896.1

—— Evois fiskeriförsöksstations verksamhet. Meddel. af inspektören för fiskerierna i Finland. IV. Helsingfors, 1896. 36 p. 2 maps. 1896.2

——Fiskepidemi. Fiskeritidskr. Finl., 1896, **5**, 146. 1896.3

—— Gåfvor till fiskerimuseum. Fiskeritidskr. Finl., 1896, **5**, 147. 1896.4

—— Hvassbuksfisket i v. Nyland. Fiskeritidskr. Finl., 1896, **5**, 148. 1896.5

—— Några ord om fiskplantering. Fiskeritidskr. Finl., 1896, **5**, 198–200. 1896.6

—— Om storryssjor och storryssjefiske. Fiskeritidskr. Finl., 1896, **5**, 18–54. 1896.7

—— Regnbågsforellen i Finland. Fiskeritidskr. Finl., 1896, **5**, 145. 1896.8

—— Reseanteckningar om fiskeriförhållandena vid en del af de tavastländska sjöarna. Fiskeritidskr. Finl., 1896, **5**, 4–8; 84–87. 1896.9

—— Undersökningar i anledning af fiskepidemin i Kyrö och Nykarleby elfvar. Fiskeritidskr. Finl., 1896, **5**, 13–14. 1896.10

—— Ijo elfs fiskerier. Fiskeritidskr. Finl., 1897, **6**, 110–115. 1897.1

—— Märkta laxar. Fiskeritidskr. Finl., 1897, **6**, 38. 1897.2

—— Några bidrag till mujkans naturalhistoria. Fiskeritidskr. Finl., 1897, **6**, 4–10; 22–30. 1897.3

—— Om dammhushållning och betydelsen af dess införande i Finland. Fiskeritidskr. Finl., 1897, **6**, 75–80. 1897.4

—— Om insjöfiskeriförsöksverksamhetens ändamål och organisation. Fiskeritidskr. Finl., 1897, **6**, 192–199. 1897.5

—— Om mujkan (*Coregonus albula*) och mujkfisket i Wiitasaari socken. Fiskeritidskr. Finl., 1897, **6**, 2–10; 22–30. 1897.6

—— Om orsakerna till fiskens utdöende uti grunda sjöar under stränga vintrar och medlen att hindra detsamma. Fiskeritidskr. Finl., 1897, **6**, 151–154. fig. 1897.7

—— Gåfva till fiskerimuseet (*Gasterosteus spinachia*) Fiskeritidskr. Finl., 1898, **7**, 81. 1898.1

—— Stor lax fångad på mete. Fiskeritidskr. Finl., 1898, **7**, 148. 1898.2

—— Stor sik. Fiskeritidskr. Finl., 1898, **7**, 180. 1898.3

—— Nordgaard, 2den beretning om de ved den biologische station i Bergen foretagne udklækningsforsög med laksérogn i saltvand. Bergens Museums Aarbog, 1898, no. 8. 1898.4

—— Ny metod att öka små sjöars fiskrikedom. Fiskeritidskr. Finl., 1898, **7**, 184–186. 1898.5

—— Torne elfs laxfiske. Fiskeritidskr. Finl., 1898, **7**, 135–142; 155–162. *Ibid.*, 1899, **8**, 113–125. 1898.6

—— Afbildning af den amerikanska insjöstören. Fiskeritidskr. Finl., 1899, **8**, 199. pl. 1899.1

—— Berättelse öfver fiskeriföreningens i Finland verksamhet under år 1898. Fiskeritidskr. Finl., 1899, **8**, 57–63. 1899.2

—— Den amerikanska insjöstören [*Acipenser rubicundus*] Fiskeritidskr. Finl., 1899, **8**, 97–100; 132–137. — Tidskr. Jägare & Fisk., 1899, **7**, 125–127; 180–186. pl. 1899.3

—— Fiskeriinspektören, Filosofiedoktorn Oscar Nordqvists berättelse öfver den resa han, enligt Kejserliga Senatens förordnande af den 4 maj 1899. Helsingfors, 1899. 15 p. 8°. 1899.4

—— Fiskodlingsresultat på Evois fiskeriförsöksstation. Fiskeritidskr. Finl., 1899, **8**, 198. 1899.5

—— Gåfvor till fiskerimuseet. Fiskeritidskr. Finl., 1899, **8**, 149. 1899.6

—— Gåfvor till fiskerimuseet [*Cyclopterus lumpus*] Fiskeritidskr. Finl., 1899, **8**, 94. 1899.7

—— Gåfvor till fiskerimuseet [*Nerophis ophidion*] Fiskeritidskr. Finl., 1899, **8**, 218. 1899.8

—— Hvar leker Puruvesilaxen? Fiskeritidskr. Finl., 1899, **8**, 201–204. 1899.9

—— Laxfisket. Fiskeritidskr. Finl., 1899, **8**, 149. 1899.10

—— Nitsche, Heinrich: "Die Süsswasserfische Deutschlands." 2. Auflage. Fiskeritidskr. Finl., 1899, **8**, 50. 1899.11

—— Ny fiskart till Finland [*Salmo fontinalis*] Fiskeritidskr. Finl., 1899, **8**, 22. 1899.12

—— Om ålens utbredning i Finlands inre vattendrag. Fiskeritidskr. Finl., 1899, **8**, 212–213. 1899.13

—— Om samarbete för undersökning af de för fisket skadliga djurarternas föda. Fiskeritidskr. Finl., 1899, **8**, 70–72. 1899.14

—— Rötsimpans (*Cottus scorpius*) och hornsimpans (*Cottus quadricornis*) fortplantning. Fiskeritidskr. Finl., 1899, **8**, 205–206. 1899.15

—— Rötsimpans eller "ulkens" (*Cottus scorpius*) och hornsimpans (*C. quadricornis*) fortplantning. Svensk Fiskeri Tidskrift, 1899, **6**, pt. 3, 136.—Fiskeritidskr. Finl., 1899, **8**, no. 12. 1899.16

—— Sommaren 1899 i Borgå skärgård äfvensom tidigare hos oss gjorda gösodlingsförsök. Fiskeritidskr. Finl., 1899, **8**, 129–131. 1899.17

—— Aluppfödning. Fiskeritidskr. Finl., 1900, **9**, 100–101. 1900.1

—— Anteckningar från en resa i finska Lappmarken sommaren 1899. Fiskeritidskr. Finl., 1900, **9**, 2–6; 19–23; 33–41; 95–99. 1900.2

—— Ater en Ladogalax ofvanom Imatra. Fiskeritidskr. Finl., 1900, **9**, 99. 1900.3

—— Fiskodling. Fiskeritidskr. Finl., 1900, **9**, 100. 1900.4

—— Forell, fångad vid Evois fiskeriförsöksstation. Fiskeritidskr. Finl., 1900, **9**, 101. 1900.5

—— Gåfvor till fiskerimuseet. Fiskeritidskr. Finl., 1900, **9**, 133. 1900.6

Belone acus, *Leuciscus latifrons* and *Petromyzon fluviatilis* are included.

—— Gösplantering. Fiskeritidskr. Finl., 1900, **9**, 101. 1900.7

—— Inre befruktning hos *Cottus scorpius* och *C. quadricornis*. Medd. Soc. Fauna Fennica, 1900, **26**, 31–34. 1900.8

—— Ladogalax fångad ofvanom Imatra. Fiskeritidskr. Finl., 1900, **9**, 43–44. 1900.9

—— La pêche en Finlande. Notices sur la Finlande publiées à l'occasion de l'Exposition Universelle à Paris en 1900. Helsingfors, 1900. 31 p. 8°. 1900.10

—— Litet om fiskarnas vandringsvägar, hufvudsakligen vid Finlands kuster. Fiskeritidskr. Finl., 1900, **9**, 167–169. 1900.11

—— Lönnberg, Einar: Om de kaspiska fiskerierna. Medd. Kongl. Landtbruksstyr., 1900, no. 2. Fiskeritidskr. Finl., **9**, 28. 1900.12

—— Mujkans (*Coregonus albula*) tillväxt. Fiskeritidskr. Finl., 1900, **9**, 159–160. 1900.13

—— Ytterligare om Puruvesi laxens lekplatser. Fiskeritidskr. Finl., 1900, **9**, 30. 1900.14

—— Ar 1900 verkställda undersökningar rörande några hafsfiskars lek samt förekomsten af deras ägg och yngel i Finska viken. Acta Soc. Fauna Flora Fenn., 1901, **20**, 1–30. 1901.1

—— Wissenschaftliche Untersuchung des Meeres und der Meeresfische im Interesse der Fischereien [Text in Swedish] Fiskeritidskr. Finl., 1901, **10**, 2–5; 36–41. 1901.2

—— Brut von *Clupea alosa* var. *finta* [Text in Swedish] Fiskeritidskr. Finl., 1902, **11**, 150. 1902.1

—— Fiskens utdöende i Malmby bäck i Oktober 1901. Fiskeritidskr. Finl., 1902, **11**, 111–114. 1902.2

—— Handbok i fiskerihushållning. Helsingfors, 1902. 200 p. 8°. 1902.3

—— Några ord i anledning af föregående uppsats (R. W. Snellman, "Om laxfisket och laxleken i Puruvesi") Fiskeritidskr. Finl., 1902, **11**, 172–173. 2 pls. 1902.4

—— Das Aufsteigen des Lachses in den Flüssen Finlands. Vorläufige Mitteilung. Congr. Intern. Pêche Piscicult. St. Pétersb., 1903, pt. 1, 121–126.—C. R. Congr. Nat. Médecin Nord, Helsingfors, 1903, pt. 6, 32–37. 1903.1

—— Aus einer Reise nach dem Gerichtssprengel Kajana um in Winterfischerei Unterricht zu geben [Text in Swedish] Fiskeritidskr. Finl., 1903, **12**, 88–89. 1903.2

Nordqvist, *O. F.*

—— Aussetzung von gezeichneten Aalen in Finnland. Fischerei Zeitg., Neudamm, 1903, **6**, 648. 1903.3

—— Einige biologische Ursachen zur gegenwärtigen Ausbreitung der Süsswasserfische in Finland [Text in Swedish] Fiskeritidskr. Finl., 1903, **12**, pts. 6–8; 115–123; 133–142. 1903.4

—— Some biological reasons for the present distribution of freshwater fish in Finland. Fennia, Bull. Soc. Géogr. Finlande, 1903, **20**, 1–29. 6 maps. 1903.5

—— Some observations on the eel in Finland. Meddel. Soc. Fauna Flora Fennica, 1903, **29**, 48–54. 1903.6

—— Aalfischereiversuche und Aaluntersuchungen in Süd-Finland. [Text in Swedish] Fiskeritidskr. Finl., 1904, **13**, 73–84. map. 1904.1

—— Infangad märkt al [Mit Marke versehener Aal eingefangen] Fiskeritidskr. Finl., 1904, **13**, 165. 1904.2

—— Resultate der Aussetzung von gezeichneten Aalen in Finnland im Jahre 1903. Deutsch. Fischerei Zeitg., Stettin, 1904, **27**, 85–86.—Mitth. Deutsch. Seefischerei Ver., **20**, 85–87. 1904.3

—— Stor lake [Ueber ein grosses Exemplar von *Lota vulgaris*] Fiskeritidskr. Finl., 1904, **13**, 29–30. 1904.4

—— Om gösen (*Stizostedium lucioperca*) och gösodling. Svensk Fiskeritidskr., 1905, **14**, 86–95. 1905.1

—— Anteckningar om gösens (*Stizostedium lucioperca*) lefnadsförhållanden och gösfisket i Dettern. Svensk Fiskeritidskr., 1906, **15**, 6–13. 1906.1

—— Das Aufsteigen der Lachse in die Flüsse Finnlands und Schwedens. (Autoreferat) Allgem. Fischerei Zeitg., 1906, **31**, 146–148. 1906.2

—— Laxens uppstigande i Finlands och norra Sveriges elfvar. Statistiskt bidrag till laxens biologi. Fennia, Bull. Soc. Géogr. Finlande, 1906, **22**, 1–58. 17 tables & 11 diagrams. 1906.3

German résumé, p. 54–58.

—— Södra Sveriges fiskeriförenings försöksstation i Aneboda. Skrift. Sverig. Fiskerifören., 1906, no. 1, 7–13. 1906.4

—— Fiskodling i dammar. Skrift. Sverig. Fiskerifören., 1907, no. 2, 47–64. 6 figs. 1907.1

—— Olika metoder att bestämma fisks ålder och tillväxt. Skrift. Sverig. Fiskerifören., 1907, no. 2, 38–46. 11 figs. 1907.2

—— Om försöksverksamheten i sötvattensfiskeriets tjänst. Kungl. Landtbruks-Akad. Handl. Tidskr., Stockholm, 1907, **46**, 50–64. map. 1907.3

—— Die Längenmasse von in der südlichen Ostsee gefangenen Lachsen und Meerforellen als Vorbereitung einer eventuellen Einführung von vereinbarten Mindestmassen dieser Fische. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1908, **9**, 23–28. 1908.1

—— Zur Kenntnis der Kolbenzellen der Schleie (*Tinca vulgaris* Cuv.) Zool. Anz., 1908, **33**, 525–528; 783. figs. 1908.2

—— Erfarenheter gjorda under fiskodlingen år 1908. Skrift. Sverig. Fiskerifören., 1909, no. 5, 27–55. 1909.1

—— Fiskåldersbestämningar för 150 år sedan. Skrift. Sverig. Fiskerifören., 1909, no. 5, 62–64. 1909.2

—— Anteckningar från en studieresa till Tyskland. Skrift. Sverig. Fiskerifören., 1910, no. 7, 161–171. 1910.1

—— Berättelse om fiskodlingen i dammar på fiskeriförsöksstationen i Aneboda och hos några privata fiskodlare år 1909. Skrift. Sverig. Fiskerifören., 1910, no. 6, 81–105. 1910.2

—— Fiskeristudier i mellersta Europa. Skrift. Sverig. Fiskerifören., 1910, no. 6, 106–128. 1910.3

—— Om ålens lif och inplantering i sjöar. Skrift. Sverig. Fiskerifören., 1910, no. 7, 147–160. 1910.4

—— Södra sveriges fiskeriförenings vårsammanträde i Aneboda den 30 maj, 1910. Skrift. Sverig. Fiskerifören., 1910, no. 7, 129–143. 1910.5

—— Zur Biologie des Stintes (*Osmerus eperlanus* L.) Acta Soc. Fauna Flora Fennica, 1910, **33**, no. 8, 1–18. 3 pls. 1910.6

—— Berättelse öfver fiskodlingen i dammar på fiskeriförsöksstationen i Aneboda och hos några privata fiskodlare år 1910. Skrift. Sverig. Fiskerifören., 1911, no. 8, 28–71. 1911.1

—— Om gäddan och gäddodling. Från skog och sjö, 1911, **4**, 134–135. 1911.2

Ueber Fortpflanzung, künstliche Befruchtung und Erbrütung von *Esox lucius.*

—— Södra sveriges fiskeriförining 1906–1911. Lund, 1911. 39 p. pl. & map. 8°. 1911.3

—— Berättelse öfver fiskodlingen i dammar på fiskeriförsöksstationen i Aneboda år 1911. Skrift. Sverig. Fiskeriffören., 1912, no. 10, 53–74. 1912.1

—— Kortfattad vägledning i fiske och fiskevård. I. Fiskevård, Stockholm, 1912. 96 p. 8°. 1912.2

—— Berättelse öfver fiskodlingen i dammar på fiskeriförsöksstationen i Aneboda år 1912. Skrift. Sverig. Fiskeriffören., 1913, no. 11, 34–66. 1913.1

—— Bidrag till kännedomen om våra sötvattensfiskars larvstadier. Arkiv Zool. Svensk. Vet. Akad., 1914, **9**, no. 4. 49 p. 4 pls. 1914.1

Nordqvist, *Oscar Frithiof,* **Ekman,** *Thorsten,* & **Schmidt,** *Carl.* Undersökningar rörande svenska laxförande vattendrag. II. Dalälfven. Meddel. Kungl. Landtbruksstyeelsen, no. 163. Stockholm, 1911. 65 p. 5 pls. 8°. 1911.1

Nordqvist, *Oscar Frithiof,* & **Ericsson,** *Bernhard.* Evois fiskeriförsöksstations verksamhet. Meddel. af inspektören för fiskerierna i Finland. IV. Helsingfors, 1896. 36 p. 2 maps. 8°. 1896.1

Nordqvist, *Oscar Frithiof,* & **Trybom,** *Filip.* Fiskevård och fiskodling. Fiskeritidskr. Finl., 1893, **2**, 162. 1893.1

Nordström, *J. A.* Berättelse om fisket i Geta. Fiskeritidskr. Finl., 1900, **9**, 10. 1900.1

Nordström, *L.* Fiskare. Stockholm, 1907. 181 p. 8°. 1907.1

Norguet, *Anatole de Madre de* [— 1898] Zoologie du département du Nord. Poissons d'eau douce. Bull. Scient. Départ. Nord, 1872, **4**, 231–234. 1872.1

Norman, —— Fish in Michigan. Rod & Gun, 1875, **6**, 290. 1875.1

Norman, *Alfred Merle* [1831 —] On the Crustacea, Echinodermata, and zoophytes contained in deep-sea dredging off the Shetland isles in 1861. Rept. Brit. Assoc. Adv. Sci., 31. meet. 1861 (1862), 151. 1862.1

—— On the external parasites of fish. Zoologist, 1864, **22**, 9014–9015. 1864.1

Norman, *W. W.* Segmentation of the nucleus without segmentation of the protoplasm. II. Experiments on fish eggs. Arch. Entw.-Mech. Leipzig, 1896, **3**, 118–122. 1896.1

Norny, *E. R.* On the propagation of the striped bass. Bull. U. S. Fish Comm. 1881 (1882), **1**, 67–78. 1882.1

—— A proposed pond for rearing striped bass (*Roccus lineatus*) in Delaware bay. Bull. U. S. Fish Comm. 1881 (1882), **1**, 260–261. 1882.2

With description of an eel, species not named.

—— A proposed pond for rearing striped bass (*Roccus lineatus*) in Delaware bay. Bull. U. S. Fish Comm. 1885, **5**, 315. 1885.1

Noro, *K.* On bleeding in cases of fish poisoning [Text in Japanese] Tokyo, Ijishinshi, 1880, no. 112. 1880.1

Norris, *A. A.,* & **Eigenmann,** *Carl H.* *See* **Eigenmann & Norris.**

Norris, *Harry Waldo* [1862 —] Recent studies of the vertebrate head. Amer. Naturalist, 1891, **25**, 95–102; 334–342. 1891.1

—— Homologies of the cyclostome ear. Proc. Iowa Acad. Sci. 1895 (1896), **3**, 29–31. 1896.1

Norris, *Thaddeus.* On the distribution of Salmo. Proc. Acad. Nat. Sci. Philad., 1862, 102. 1862.1

—— Remarks on a species of Osmerus [*O. viridescens*] taken in the Schuylkill, below Fairmont dam. Proc. Acad. Nat. Sci. Philad. 1861 (1862), 58–59. 1862.2

—— The American angler's book. Embracing the natural history of sporting fish, and the art of taking them. Philadelphia, 1864. xxiii, 604 p. 80 pls. 8°. 1864.1

—— The same. 2. ed., with supplement. Philadelphia, 1865. 701 p. 80 pls. 8°. 1865.1

—— American fish-culture; embracing all the details of artificial breeding and rearing of trout, the culture of salmon, shad, and other fishes [With an appendix] Philadelphia, 1868. 304 p. illust. 1868.1

—— Remarks on a new species of Osmerus [*O. sergeanti*] Proc. Acad. Nat. Sci. Philad., 1868, 93–94. 1868.2

—— On the stocking of the Delaware with *Salmo salar.* Proc. Acad. Nat. Sci. Philad., 1872, 163–164. 1872.1

Norris, *T.*

—— Peculiarities of anadromous fishes. Forest & Stream, 1873, **1**, 246–247. 1873.1

—— Accidental propagation of shad. Forest & Stream, 1874, **2**, 346–347. 1874.1

—— Autopsy of a salmon. Forest & Stream, 1874, **2**, 356. 1874.2

—— Concerning the so-called black bass. Amer. Sportsman, 1874, **3**, 407. 1874.3

—— Introduction of grass bass. Amer. Sportsman, 1874, **3**, 397. 1874.4

—— Perplexity arising from local names of fish. Forest & Stream, 1874, **2**, 123. 1874.5

—— Salmon hatching on the Delaware. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 382. 1874.6

—— Technical names of chub. Forest & Stream, 1874, **2**, 181. 1874.7

—— The two species of smelt. Amer. Sportsman, 1874, **3**, 371. 1874.8

—— What do salmon eat? Forest & Stream, 1875, **5**, 308. 1875.1

—— On the acclimatization of the Michigan grayling in eastern waters. Trans. Amer. Fisheries Soc. 1875 (1876), 38–39. 1876.1

—— The Michigan grayling. Scribners Monthly Mag., 1879, 17–23. 1879.1

North, *Oliver* [*pseudon.*] *See* **Mullen,** *W.*

North, *Roger* [1653–1754] The history of esculent fish, with plates by E. Albin; and an essay on the breeding of fish, and the construction of fish-ponds, by . . . R. North. London, 1794. 80 p. 18 pls. 4°. 1794.1

This book appears to have been a publisher's venture, and consists of:
1. A series of eighteen "remainder" plates by Eleazar, Elizabeth and Fortin Albin, engraved between 1735 and 1740, to which text has been written at some period posterior to 1774, and consequently not by Eleazar Albin.
2. A reprint of North's "Discourse" which appeared in 1713.

—— A treatise on fish and fish-ponds, illustrated . . . by Ebenezer [*sic*] Albin. London, 1835. ii, 92 p. 18 pls. 4°. 1835.1

This is a reprint of the preceding in which North's "Discourse" is placed first.

Northrop, *Henry Davenport.* The animal world, or Wonders of natural history, etc. Mansfield, Ohio, 1901. 608 p. illust. 8°. 1901.1

Chap. xxi, Fishes of many species. Chap xxii, Curious creatures of the sea.

Norwood, *Joseph Granville,* & **Owen,** *David Dals.* Description of a new fossil fish from the Palæozoic rocks of Indiana. Amer. Journ. Sci., 1846, 2. ser. **1**, 367–371. 2 figs. 1846.1

Describes the Middle Devonian arthrodiran genus Macropetalichthys.

—— Description of *Macropetalichthys rapheidolabis.* Proc. Boston Soc. Nat. Hist., 1846, **2**, 116. 1846.2

Norwood, *J. W.* Fish and water symbols. Open Court, Chicago, 1912, **26**, 662–672. 1912.1

Noulet, *J. B.* Liste des poissons de la Haute-Garonne et synonymie locale. Toulouse, 1891. 1891.1

Nourse, *Thorndike.* Les méthodes les plus récentes pour l'incubation des œufs de poisson au moyen des appareils Macdonald. Bull. Soc. Centr. Aquicult. Pêche, 1898, **10**, 1–16. 7 figs. 1898.1

—— Les "Valli" ou pêcheries de la Vénétie. Rev. Scient., 1899, 4. sér. **12**, 33–40. 16 figs. 1899.1

Noury, *E.* Note sur une plie franche (*Platessa vulgaris* Flem.) présentant une coloration anomale. Bull. Soc. Amis Sci. Nat. Rouen, 1909, 5. sér. **44**, 19–20. 1909.1

Novikov, *M. M.* Beobachtungen über die Vermehrung der Knorpelzellen, nebst einigen Bemerkungen über die Struktur der "hyalinen" Knorpelgrundsubstanz. Zeitschr. Wiss. Zool., 1908, **90**, 205–257. 4 pls. & 5 figs. 1908.1

—— Der histologische Bau der Knochen von *Orthagoriscus mola.* Moskva, Dnevn. XII. Sjězda Russ. Jest. Vrač. 1909–1910 (*Prot.*) 286–287. 1909.1

—— Ueber den Bau des Knochens von *Orthagoriscus mola.* Anat. Anz., 1910, **37**, 97–106. 6 figs. 1910.1

Nowak, *Julian.* Welchen Nutzen können die theoretisch wissenschaftlichen Forschungen der Fischkrankheiten für die Fischzucht bringen? Stenogr. Protok. Verh. Intern. Fisch.-Kongr. Wien, 1905, 332–337. 1905.1

Nowicki, *Maximilian.* Nasze ryby, ich nazwy ludowe, rozsiedlenie w wodach krajowych, pora i miejsce tarla. Kraków, Nakl. St. Kulczyckiego, 1879. fol. 1879.1

—— Niew o naszych wodach i rybach, oraz kulturze rybnej. Nakl. Tow. Gospodarstwa Galicyiskiego, Lwów, 1879. 3 p. 4°. 1879.2

—— Diverses [über Fische und Fischzucht] aus Galizien. Oesterr.-ungar. Fischerei Zeitg., 1880, 387. 1880.1

—— Dodatki do rossiedlenia ryb w wodach Galicyi. Nakl. Tow. Rybackiego, Kraków, 1880. 17 p. 8°. 1880.2

—— In Galizien freigelassene Californier [Salme] Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 114–115. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 57–58. 1880.3

—— Ryby i wody Galicyi pod wzgledem rybactwa krajowego [The fishes and waters of Galicia] Kraków, 1880. 96 p. 10 pls. 8°. 1880.4

—— Ochronu rybom [Protection of fishes] Lwów, 1881. 8 p. 8°. 1881.1

Nuel, *J. P.* Quelques phases du développement du *Petromyzon planeri*. Arch. Biol., 1881, **2**, 403–454. 2 pls. Abstract in Journ. Roy. Micr. Soc., 2. ser. **2**, pt. 1, 26–27. 1881.1

Nüsslin, *Otto.* Zur Kritik des Amphioxusauges. Inaug. Dissert. Tübingen, 1877. 33 p. col. pl. 4°. 1877.1

—— Beiträge zur Kenntnis der Coregonus-Arten des Bodensees und einiger anderer nahegelegener nordalpiner Seen. Zool. Anz., 1882, **5**, 86–92; 106–111; 130–135; 164–169; 182–189; 207–212; 253–258; 279–282; 302–306. 7 figs. 1882.1

—— Die Fischereiverhältnisse am Bodensee, mit Rücksicht auf die Interessenfragen für die Fischer. Deutsch. Fischerei Zeitg., 1882, nos. 8 & 9. 1882.2

—— Ueber das Wesen der Species bei den nordalpinen Coregonen. Amtl. Ber. 56. Vers. Deutsch. Naturf. Arzte, Freiburg, 1884, **1**, 113–116. 1884.1

—— Ueber den Gangfisch des Bodensees und sein Verhältnis zum Blaufelchen. Mitt. Badisch. Zool. Ver., Karlsruhe, 1901, nos. 9–10, 1–16. 1901.1

—— Zur Gangfischfrage. Allgem. Fischerei Zeitg., 1901, **26**, 260–264; 277–284. 1901.2

—— Artberechtigung des Gangfisches. Zool. Anz., 1903, **27**, 156–161. 1903.1

—— Die schweizer Coregonenspecies; eine Erwiderung auf Dr. V. Fatio's "Deux mots à propos du *Coregonus macrophthalmus* de Nüsslin." Zool. Anz., 1903, **26**, 393–406. 4 figs. 1903.2

—— Gangfisch und Blaufelchen. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1904, 60. Jahrg., 189–197. 1904.1

—— Letzte Erwiderung in dieser Zeitschrift auf Prof. Dr. Klunzinger's Ausführungen in der Gangfisch- Blaufelchen- Frage von März, 1904. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1905, 61. Jahrg., 302–306. 2 figs. 1905.1

—— Der Blaufelchen des Bodensees, sein Fang und seine Pflege. Zeitschr. Fischerei, Berlin, 1907, **13**, 24–33. 1907.1

—— *Coregonus wartmanni* Bloch und Macrophthalmus Nüssl. Differentialdiagnose für das Stadium der Dottersackbrut. Biol. Centralbl., 1907, **27**, 440–447. 6 figs. 1907.2

—— Der Fang der Blaufelchen zur Laichzeit. Allgem. Fischerei Zeitg., 1907, **32**, 251–254. 1907.3

—— Die künstliche Fischzucht beim Blaufelchen. Allgem. Fischerei Zeitg., 1907, 32. Jahrg., 278–280. 1907.4

—— Die Larven der Gattung Coregonus, ihre Beziehungen zur Biologie, und ihre systematische Bedeutung. Verh. Deutsch. Zool. Ges., 1908, 18 Vers., 172–194. 17 figs. 1908.1

—— Die Madü-Maräne (Peipus-Maräne) ihr Einsatz in nord-alpinen Seen. Allgem. Fischerei Zeitg., 1908, **33**, 6–8. 1908.2

—— Neueres vom Lachs. Verh. Naturw. Ver. Karlsruhe, 1908, **20**, 10*–13*. 1908.3

—— Die wissenschaftliche Bedeutung der Coregonen-Larven. Verh. Naturw. Ver. Karlsruhe, 1910, **22**, 86–100. 1910.1

Nufer, *Walther.* Die Fische des Vierwaldstättersees und ihre Parasiten. Festschr. Jubiläumsfeier 50jähr. Bestehens Nat. Ges. Luzern. Mitt. Nat. Ges. Luzern, 1905, **5**, 1–232. 4 pls. 1905.1

Nuhn, *A.* Lehrbuch der vergleichende Anatomie. Heidelberg, 1878. illust. 8°. 1878.1

Nuñez, *Antonio Machado y. See* **Machado y Nuñez,** *Antonio.*

Nuñez Cabeza de Vaca, *Alvar* [—1564] Relation of Alvar Nuñez Cabeça de Vaca, translated from the Spanish by Buckingham Smith. New York, 1871. x, 300 p. ports. 1871.1

The present edition is a revision of B. Smith's translation privately printed at Washington in 1851. Some mention is made of fishes taken in the gulf region of the United States.

Another translation, by P. Hernandez, is contained in Hakluyt Society, Works, etc., no. 81. 1891. 8°.

Nuñez Ortega, *A.* Ensayo de una explicación del orígen de las grandes mortandades de peces en el golfo de México. Emulación, Mérida, 1877–79, **3**, 278–280. 1877.1

—— Ueber die Sterblichkeit der Fische im Golfe von Mexico. Ausland, 1877, 50. Jahrg., 717–718. 1877.2

—— Ensayo de una explicación del orígen de las grandes mortandades de peces que ocurren en golfo de México. Naturaleza 1877–79 (1879), **4**, 188–197. 1879.1

Nunn, *Emily.* On the development of the enamel of the teeth of vertebrates. Proc. Roy. Soc. London, 1883, **34**, 156–165. 3 pls. 1883.1

Teeth of sharks, skates and teleosts (Scomber).

Nusbaum, *Józef.* Z zycia ryb [On the habits of fishes] Przyroda i Przemysl, 1880–81, **9**, 266–268; 278–280; 507–508. 1880.1

—— Ueber das anatomische Verhältnis zwischen dem Gehörorgane und der Schwimmblase bei den Cyprinoiden. Zool. Anz., 1881, **4**, 552–556. 1881.1

—— O wzajemnym stosunku organu stuchu i pgcherza ptawnego u ryb karpiowatych [Ueber das Gehörorgan und Schwimmblase der Cyprinoiden] Kosmos, Lwów, 1882, 1–38. 4 pls. 1882.1

—— Das anatomische Verhältniss zwischen dem Gehörorgane und der Schwimmblase bei dem Schleimbeisser (*Cobitis fossilis*) Anat. Anz., 1899, **16**, 209–223. figs. 1899.1

—— Contributions aux études sur la régénération des téléostéens [Text in Polish] Kosmos, Lwów, 1903, **28**, 1–20. pl. 1903.1

—— Zur Kenntnis der Heteromorphose bei der Regeneration der älteren Forellenembryonen (*Salmo irideus* W. Gibb.) Anat. Anz., 1903, **22**, 358–363. fig. 1903.2

—— Zur Morphologie des Saccus paravertebralis und einiger anderen Lymphräume, zugleich ein Beitrag zur Kenntniss der Pleuroperitonalhäute bei den Knochenfischen. Anat. Anz., 1903, **23**, 339–351. 5 figs. 1903.3

—— Zur Histogenese der Lederhaut und der Cycloid-Schuppen der Knochenfische (In Nusbaum, J., & Kulczycki, W. Materialien zur vergleichenden Histologie der Hautdecke der Wirbeltiere. Anat. Anz., 1907, **30**, 297–310. 10 figs.) 1907.1

—— Zur Histologie der tätigen Gasdrüse und des Ovals bei den Teleostiern; eine Antwort an Alfred Jäger. Anat. Anz., 1907, **31**, 169–175. 3 figs. 1907.2

—— Zur Teratologie der Knochenfische, zugleich ein Beitrag zu deren Regeneration. Arch. Entw.-Mech., Leipzig, 1907, **24**, 114–123. pl. 1907.3

—— Entwickelungsgeschichte und morphologische Beurteilung der Occipitalregion des Schädels und der Weberschen Knöchelchen bei den Knockenfischen (*Cyprinus carpio* L.) Anat. Anz., 1908, **32**, 512–532. 14 figs. 1908.1

—— Rozwój potylicy oraz kostek Webera u ryb karpiowatych [Zur Entwicklungsgeschichte der Occipitalregion des Schädels und der Weberschen Knöchelchen bei den Cyprinoiden] Bull. Intern. Acad., Kraków, 1908, 505–508. 1908.2

—— Festschrift zur Ehre der dreissigjährigen wissenschaftlichen und schriftstellerischen Tätigkeit von Prof. Dr. Józef Nusbaum, herausgegeben von früheren Schülern. Lwów, 1911. xvii, 306 p. 14 pls. & 17 figs. 8°. 1911.1

Verzeichnis der Publikationen von J. Nusbaum und seinen Schülern.

—— Notes préliminaires sur l'anatomie comparée des poissons provenant des campagnes de S. A. S. le prince de Monaco. Fragments sur l'anatomie de *Cyclothone signata* Garm. Bull. Instit. Océanogr. Monaco, 1912, no. 246, 1–13. 1912.1

—— Zur Kenntnis des Verhaltens des Kernkörperchens und dessen Derivate bei der Ovogenese einiger Tiefseeknochenfische. Anat. Anz., 1913, **43**, 582–598. pl. & 11 figs. 1913.1

Nusbaum, *Józef,* & **Bykowski,** *L.* Beiträge zur Morphologie des parasitischen Knochenfisches Fierasfer Cuv. I. Die Schwimmblase mit besonderer Berücksichtigung der Gasdrüse derselben. Bull. Intern. Acad. Sci. Cracovie, 1904, 409–424. pl. 1904.1

—— Weitere Beiträge zur Morphologie des parasitischen Knochenfisches Fierasfer Cuv. Bull. Intern. Acad. Sci. Cracovie, 1905, 169–198. 15 figs. 1905.1

Nusbaum, *Józef,* **Karsten,** *G.,* & **Weber,** *Max.* Lehrbuch der Biologie. Leipzig, 1911. illust. 8°. 1911.1

Nusbaum, *Józef,* & **Kulczycki,** *Wlodzimierz.* Zur Kenntnis der Drüsenzellen in der Epidermis der Knochenfische [Text in Hungarian] Bull. Acad. Sci. Cracovie 1905 (1906), 785–787. 1906.1

—— Materialien zur vergleichenden Histologie der Hautdecke der Wirbeltiere. Anat. Anz., 1906, **28**, 342–354. 6 figs. *Ibid.*, 1907, **30**, 297–310. 10 figs. 1906.2

Zur Kenntnis der Epidermis und insbesondere deren Drüsen bei den Teleostiern.

Nusbaum, *Józef,* & **Prymak,** *Teodor.* Zur Entwickelungsgeschichte der lymphoiden Elemente der Thymus bei den Knochenfischen. Anat. Anz., 1901, **19**, 6–19. 4 figs. 1901.1

Nusbaum, *Józef,* & **Reis,** (*Frau Dr.*) *Karolina.* Przyczynek do anatomii i fizyologii t. zw. owalu w pęcherzu pławnym ryb [Beiträge zur Anatomie und Physiologie des sogenannten Ovals in der Schwimmblase der Fische] Bull. Intern. Acad. Sci. Cracovie, 1905, 778–787. 1905.1

Nusbaum, *Józef,* & **Sidoriak,** *S.* Beiträge zur Kenntniss der Regenerations-Vorgänge nach künstlichen Verletzungen bei älteren Bachforellen-Embryonen (*Salmo fario* L.) Arch. Entw.-Mech., Leipzig, 1900, **10**, 645–684. 3 pls. 1900.1

Nusbaum - Hilarowicz, *Joseph.* Quelques remarques sur les organes génitaux femelles de *Gastrostomus bairdii* (Gill et Ryder) Note préliminaire. Bull. Inst. Océanogr. Monaco, 1915, no. 313, 4 p. 1915.1

Existence d'oviductes, qui se réunissent en arrière en canal impaire et qui s'ouvre au dehors.

—— Résultats des campagnes scientifiques de S. A. S. Albert I Prince de Monaco [Note préliminaire] Bull. Inst. Océanogr. Monaco, 1915, no. 307, 5 p. 1915.2

—— Sur quelques points intéressants dans la structure des reins chez *Gastrostomus bairdii* (Gill et Ryder), *Argyropelicus hemigymnus* (Cocco) et *Chauliodus sloanei* (Bloch) Bull. Inst. Océanogr. Monaco, 1915, no. 307, 5 p. 1915.3

—— Ueber den Bau des Darmkanals bei einigen Tiefseeknochenfischen. Anat. Anz., 1915–16, **48**, 474–484; 497–506. 7 figs. 1915.4

Nussbaum, *Moritz.* Ueber die Generationsorgane der Fische. Circul. Deutsch. Fisherei Ver., 1879, no. 3, 91–95. 1879.1

—— Zur Differenzierung des Geschlechts im Thierreich. Arch. Mikr. Anat., 1880, **18**, 1–121. 4 pls. 1880.1

Von der Entwicklung der Geschlechtsdrüsen bei den Teleostiern, p. 21–30.

—— Ueber den Bau und die Thätigkeit der Drüsen. IV. Mittheilung. Arch. Mikr. Anat., 1882, **21**, 296–351. 4 pls. 1882.1

Der Magen der Fische (Teleostiern) p. 324–327.

—— Ein einfaches Verfahren zur Erkennung der gelungenen Befruchtung von Fischeiern. Deutsche Fischerei Zeitg., 1883, **6**, no. 5. 1883.1

—— A simple test to learn if fish ova are impregnated. Bull. U. S. Fish Comm. 1882 (1883), **2**, 347–348. 1883.2

By placing fertilized ova in 50% solution of vinegar, the embryo will become apparent to the eye, in the transparent yolk.

—— Johannes Müller, der Begründer der neuen Biologie. Naturw. Rundschau, 1897, **12**, 267–271. 1897.1

—— Die Entwicklung der Binnenmuskeln des Auges der Wirbelthiere. Arch. Mikr. Anat., 1901, **58**, 199–230. 2 pls. 1901.1

Nutting, *Charles Cleveland* [1858 —] The color of deep-sea animals. Proc. Iowa Acad. Sci., 1899, **6**, 27–36. 1899.1

—— The utility of phosphorescence in deep-sea animals. Amer. Naturalist, 1899, **33**, 792–799. 1899.2

Contains references to Lophius, Antennarius, etc.

—— The sea-bottom, its physical conditions and its fauna. Science, 1901, n. s. **13**, 841–852. 1901.1

Contains references to deep-sea fishes.

Nye *(junior), Willard.* Eels (*Anguilla rostrata*) in New Bedford water pipes; mackerel abundant in Amherst river; letter to Prof. S. F. Baird. Bull. U. S. Fish Comm. 1882 (1883), **2**, 272. 1883.1

—— Notes upon octopus, flying-fish, etc., taken during the "Albatross" cruise in January, 1884. Bull. U. S. Fish Comm. 1885, **5**, 189–190; 336. 1885.1

—— Fish and fishing in Abaco island. Bull. U. S. Fish Comm. 1886 (1887), **6**, 125–126. 1887.1

—— Habits of whiting or frostfish (*Merluccius bilinearis* Mitch.) Bull. U. S. Fish Comm. 1886 (1887), **6**, 208. 1887.2

—— Notes on the fisheries of Buzzard's bay and vicinity. Bull. U. S. Fish Comm. 1887 (1889), **7**, 160. 1889.1

Nylander, *Anders Edvin.* Skildring af en resa i Lappland. Oefvers. Finsk Vet. Soc. Förh., 1857, **4**, 75–78. 1857.1

Nylander, *William.* Collectanea in floram karelicam. Notis. Sallsk. Fauna Flora Fenn. Förh., 1852, **2**, 109–181. 1852.1

Contains incidental notice of fishes.

Nyström, *E.* Redogörelse för den Japanska fisksamlingen i Upsala Universitets zoologiska museum. Svenska Vet. Akad. Handl., 1887, **13**, pt. 4, no. 4, 1–54. 1887.1

A list, with notes, of 57 species of Japanese fish in the Upsala Museum, several of which are described as new.

—— Om en monströs form af *Cottus scorpius*. Stockholm, 1889. 8°. pls. 1889.1

Nystrom, *C. L.* Fauna i Jemtlands vattendrag. Stockholm, 1863. 8°. 1863.1

O

O., —— Facts on the gravelling of the taw, which is deemed the young of the salmon; and incidental information on the skegger trout of the Thames. Mag. Nat. Hist., 1835, **8**, 54–55. fig. 1835.1

—— Some account of the stickleback fish (*Gasterosteus aculeatus*) Mag. Nat. Hist., 1830, **3**, 329–332. fig. 1830.1

—— Descriptive notice of the char (*Salmo alpinus* L.) and mention of another species of fish. Mag. Nat. Hist., 1832, **5**, 316–318. 1832.1

Oakes, *O. H.* Deep-sea trawling for Alepidosaurus off Gloucester, Mass. Forest & Stream, 1877, **9**, 246. 1877.1

Obenchain, *Jeannette B.*, & **Herrick,** *C. Judson.* *See* **Herrick & Obenchain.**

O'Brien, *M. E.* The propagation of natural food for fish with special reference to fish-culture. Trans. Amer. Fisheries Soc. 1888 (1889), 29–32. 1889.1

—— Epidemic among trout in Nebraska. Trans. Amer. Fisheries Soc. 1895 (1896), 52–56. 1896.1

—— Methods of hatching and rearing large-mouth black bass. Trans. Amer. Fisheries Soc. 1898 (1899), 84–86. 1899.1

Observer (*pseudon.*) Sores on fish. Forest & Stream, 1877, **7**, 357. 1877.1

Observations on pickerel, caught through the ice in Lee, Mass.

Ocaña, *José Gomez.* *See* **Gomez Ocaña,** *José.*

Occasional (*pseudon.*) Black bass of the Potomac; their haunts and habits. Forest & Stream, 1877, **7**, 355. 1877.1

O'Connell, *Marjorie.* The habitat of the Eurypterida. Bull. Buffalo Soc. Nat. Sci., 1916, **11**, no. 3. 1916.1

Migration and dispersal of modern fluviatile organisms, p. 203–204. The Old Red Sandstone [fishes] p. 167–206.

O'Connor, *D.* On fish acclimatisation in Queensland. Proc. Roy. Soc. Queensland, 1886, **3**, pt. 1, 139. 1886.1

—— On the occurrence of *Chanos salmoneus* in Moreton bay. Proc. Roy. Soc. Queensland, 1886, **3**, pt. 1, 141–142. 1886.2

—— Report on preservation of Ceratodus. Proc. Roy. Soc. Queensland, 1897, **12**, 101–102. 1897.1

—— Introduction of *Ceratodus forsteri* into England. Field, 1898, **91**, 899. 1898.1

—— On Ceratodus. Proc. Zool. Soc. London, 1898, pt. 3, 493. 1898.2

—— Notes on the Ceratodus. Rept. Austral. Assoc. Adv. Sci., 12. meet. 1909 (1910), 383–384. 1910.1

Transport in wet mud 33 hours out of water; young fishes dug out of mud.

Oconomowoc, pseudonym for **Henshall,** *J. A.*

Oder, *Eugene.* Ueber Fische und Fischfang (In Susemihl, E. Geschichte der Alexanderischen Litteratur. Bd. i, 1891) 1891.1

Odin, *Amédée.* Etude sur l'huile de foie de raie et de la glande qui la fournit. Paris, 1873. 79 p. 8°. 1873.1

—— Recherches sur les relations apparentes des rendements de la pêche de la sardine aux Sables d'Olonne (Vendée) avec les variations météorologiques survenues sur cette côte depuis 1871. Bull. Soc. Centr. Aquicult. Pêche, 1896, **8**, 173–197. 1896.1

Odón de Buen, *D.* El *Chauliodus sloani*. Bol. Soc. Española Hist. Nat., Madrid, 1902, **2**, 104–105. 1902.1

O'Donoghue, *Charles H.* Notes on the circulatory system of elasmobranchs. I. The venous system of the dogfish (*Scyllium canicula*) Proc. Zool. Soc. London, 1914, 435–455. 2 pls. & 4 figs. 1914.1

Odoric of Pordenone (*Friar*) [1286–1331] The journal of Friar Odoric (In The travels of Sir John Mandeville, p. 326–362. London, 1915) 1915.1

Chap. vi. Of the abundance of fishes, which cast themselves upon the shore.

Oeberg, *P. E. W.* *Acantholabrus couchi* Cuv. & Val., en för Skandinaviens fauna ny fiskart. Oefvers Svensk. Vet. Akad. Förh. 1870 (1871), **27**, 391–395. 1871.1

Oedmannson, —— [Ueber becherförmige Zellen, etc.] Inaug. Dissert. 1863. 1863.1

Not seen: a paper on the occurrence of sensory papillæ in vertebrates, referred to in the next-following article.

Oeffinger, *Hermann.* Einige Bemerkungen über die sogenannten Becherzellen. Arch. Anat. Physiol., 1867, 337–348. 1867.1

"Becherzellen oder Schleimzellen in der Haut einiger Fische sind nicht anderes, als veränderte Epithelzellen."

See also references under Leydig, F., 1851.1 and Schulze, F. E., 1867.1, in the present Bibliography.

—— Neue Untersuchungen über den Bau des Gehirns vom Nilhecht. Arch. Anat. Physiol., 1867, 713–732. 1867.2

Oehberg, *Abraham.* Riklig laxfångst vid Åland. Fiskeritidskr. Finl., 1897, **6**, 139. 1897.1

Oellacher, *Josef.* Beiträge zur Entwicklungsgeschichte der Knochenfische nach Beobachtungen am Bachforelleneie. Zeitschr. Wiss. Zool., 1872, **22**, 373–421. 2 pls. *Ibid.*, **23**, 1–115. 4 pls. — Arch. Zool. Expér. Gén., **2**, 52–62. 1872.1

—— Ueber die Bildung des Urniereinganges bei Knochenfischen (Forelle) und über die Beziehungen derselben zur Keimblattlehre. Tagebl. 45. Vers. Deutsch. Naturf., 1872, 150–151. 1872.2

—— Ueber einen lebenden Doppelembryo von *Trutta fario.* Ber. Naturw. Medic. Ver., Innsbruck, 1873, 3. Jahrg., 31–33. 1873.1

—— Ueber den Bau des Forelleneies vor der Befruchtung und die Veränderungen des Kiemes nach derselben. Ber. Naturw. Medic. Ver., Innsbruck, 1873, 3. Jahrg., 22–24. 1873.2

—— Ueber die erste Entwicklung der Forelle. Ber. Naturw. Medic. Ver., Innsbruck, 1873, 3. Jahrg., 47–51. 1873.3

—— Terata mesodidyma von *Salmo salvelinus,* nebst Bemerkungen über einige andere an Fischen beobachtete Doppelmissbildungen. Sitzber. Akad. Wiss. Wien 1873 (1874), **68**, 1. Abth., 299–325. Also separate; Wien, 1874. 27 p. 8°. 1874.1

—— Ueber Doppelmissbildungen an Fischen. Ber. Naturw. Medic. Ver., Innsbruck, 1874, 4. Jahrg., 61–63. 1874.2

—— Ueber eine im befruchteten Forellenkieme vor den einzelnen Furchungsacten zu beobachtende radiäre Struktur des Protoplasmas. Ber. Naturw. Medic. Ver., Innsbruck 1874 (1875), 5. Jahrg., 13–19. 1875.1

—— Beiträge zur Entwicklungsgeschichte der Bachforelle. Ber. Naturw. Medic. Ver., Innsbruck 1878 (1879), 9. Jahrg., 141–143. 1879.1

Oerley, *Lászio.* A czápáknak és rájáknak belférgei. Termesz. Füzetek, 1885, **9**, 97–126. 1885.1

—— Adatok a czápa-embriok élettanahoz. Termesz. Füzetek, 1885, **9**, 221–235. 1885.2

—— Die Entozoen der Haien und Rochen. Budapest, 1885. pl. 8°. 1885.3

—— Zur Physiologie der Haiembryonen. Termesz. Füzetek, 1885, **9**, 293–309. pl. 1885.4

Oesterbol, *A.* Fish and Medusæ. Bull. U. S. Fish Comm. 1885, **5**, 331–332. 1885.1

—— Fiske og meduser. Fiskeritidende, Kjøbenhavn, 1885, no. 22. 1885.2

Refers to observations of Hugo Eisig upon commensal habits of young mackerel and medusæ.

Ofsiannikoff, *Philip V. See* **Ovsyannikov,** *Filipp Vasilevitch.*

Ogérien, (*Frère*) —— Histoire naturelle du Jura. 3 vols. Paris, 1863. 1863.1

Tome iii. Zoologie vivante. xx, 570 p. Poissons, p. 317–375.

Ogilby, *J. Douglas.* Notes on some fishes observed at Portrush, county Antrim. Zoologist, 1876, 2. ser. **11**, 4753–4756. 1876.1

—— Torpedo on the Irish coast. Zoologist, 1876, 2. ser. **11**, 4805–4806. 1876.2

—— Description of a new Diplocrepis from Port Jackson. Proc. Linn. Soc. N. S. Wales, 1885, **10**, 270–272. 1885.1

—— Note on *Neoanthias guentheri* Casteln. Proc. Linn. Soc. N. S. Wales, 1885, **10**, 231–232. 1885.2

—— Notes and descriptions of some rare Port Jackson fishes. Proc. Linn. Soc. N. S. Wales, 1885, **10**, 119–123; 225–232; 445–447. 1885.3

—— Notes on some Irish fishes. Sci. Proc. Roy. Dublin Soc., 1885, n. s. **4**, 510–535. 1885.4

—— Notes on the distribution of some Australian sharks and rays. Proc. Linn. Soc. N. S. Wales, 1885, **10**, 466. 1885.5

—— Notes on the distribution of some Australian sharks and rays, with a description of *Rhinobatus bougainvillei* Müll. & Henle. Proc. Linn. Soc. N. S. Wales, 1885, **10**, 463–466. 1885.6

—— On an undescribed Pimelepterus [*P. meridionalis*] from Port Jackson. Proc. Zool. Soc. London, 1886, 539–540. 1886.1

—— On a new genus and species of Australian Mugilidæ. Proc. Zool. Soc. London, 1887, 614–616. 1887.1

—— Catalogue of the fishes in the collection of the Australian Museum. Part I. Recent palæichthyan fishes. Sydney, 1888. 26 p. 8°. 1888.1

—— On a small zoological collection from Norfolk island. Fishes. Proc. Linn. Soc. N. S. Wales, 1888, 2. ser. **2**, 990–993. 1888.2

—— *Acanthoclinus littoreus* vel *A. fasciolatus*. Mem. Austral. Mus., 1889, **2**, 63. pls. & figs. 1889.1

—— List of the Australian Palæichthyes, with notes on their synonymy and distribution. Part II. Proc. Linn. Soc. N. S. Wales, 1889, 2. ser. **4**, 178–186. 1889.2

—— Notes on some fishes new to the Australian fauna. Proc. Zool. Soc. London, 1889, 151–158. 1889.3

—— Description of a new Tetrodon from New South Wales. Rec. Austral. Mus., 1890, **1**, no. 4. 1890.1

—— Descriptions of two species of Australian lophobranchiate fishes. Rec. Austral. Mus., 1890, **1**, no. 3. 1890.2

—— Redescription of *Anomalops palpebratus*. Rec. Austral. Mus., 1890, **1**, no. 3. 1890.3

—— Redescription of *Pseudaphritis bassi* Casteln. Rec. Austral. Mus., 1890, **1**, no. 3. 1890.4

—— Report on a zoological collection from the Solomon islands [Pisces] Rec. Austral. Mus., 1890, **1**, 7. 1890.5

—— Description of a new fish from Lord Howe island. Rec. Austral. Mus., 1891, **1**, no. 6. 1891.1

—— On some undescribed reptiles and fishes from Australia. Rec. Austral. Mus., 1892, **2**, 23–26. 1892.1

—— Description of a new pelagic fish from New Zealand. Rec. Austral. Mus., 1893, **2**, 64–65. 1893.1

—— Description of a new shark from the Tasmanian coast. Rec. Austral. Mus., 1893, **2**, 62–63. 1893.2

—— Review of the genus Schedophilus Cocco and its allies. Rec. Austral. Mus., 1893, **2**, 65–73. 1893.3

—— Description of a new Australian eel. Proc. Linn. Soc. N. S. Wales, 1894, 2. ser. **9**, 720–721. 1894.1

—— Description of five new fishes from the Australian region. Proc. Linn. Soc. N. S. Wales, 1894, 2. ser. **9**, 367–374. 1894.2

—— Freshwater fishes of New South Wales. Nat. Science, 1895, **6**, 71–72. 1895.1

—— On two new genera and species of fishes from Australia. Proc. Linn. Soc. N. S. Wales, 1895, 2. ser. **10**, 320–324. 1895.2

—— Descriptions of two new genera and species of Australian fishes. Proc. Linn. Soc. N. S. Wales, 1896, **21**, 136–142. 1896.1

—— A monograph of the Australian Marsipobranchii. Proc. Linn. Soc. N. S. Wales, 1896, **21**, 388–426. 1896.2

—— A new family of Australian fishes. Proc. Linn. Soc. N. S. Wales, 1896, **21**, 118–135. 1896.3

—— On a Galaxias from Mount Kosciusko. Proc. Linn. Soc. N. S. Wales, 1896, **21**, 62–73. 1896.4

—— On a new genus [Apogonops] and species of Australian fishes. Zool. Anz., 1896, **19**, 256. 1896.5

—— On a new genus and species of fishes from Maroubra bay. Proc. Linn. Soc. N. S. Wales, 1896, **21**, 23–25. 1896.6

—— Some Tasmanian fishes. Proc. Roy. Soc. Tasmania, 1896, 69–85.

Ogilby, *J. D.*

—— New genera and species of Australian fishes. Proc. Linn. Soc. N. S. Wales, 1897, **22**, 62–95. 1897.1

—— On some Australian Eleotrinæ. Proc. Linn. Soc. N. S. Wales, 1897, **22**, 725–757. 1897.2

—— Some new genera and species of fishes. Proc. Linn. Soc. N. S. Wales, 1897, **22**, 245–257. 1897.3

—— A contribution to the zoology of New Caledonia. Proc. Linn. Soc. N. S. Wales, 1898, **23**, 762–770. 1898.1

—— New genera and species of fishes. Proc. Linn. Soc. N. S. Wales, 1898, **23**, 32–41; 280–299. 1898.2

—— New species of Australian fishes. Proc. Linn. Soc. N. S. Wales, 1898, **23**, 759–761. 1898.3

—— Notes on the genus Aphritis Cuv. et Val. Proc. Linn. Soc. N. S. Wales, 1898, **23**, 554–560. 1898.4

—— On a Trachypterus from New South Wales. Proc. Linn. Soc. N. S. Wales, 1898, **23**, 646–659. 1898.5

—— On some Australian Eleotrinæ. Proc. Linn. Soc. N. S. Wales, 1898, **23**, 783–793. 1898.6

—— Additions to the fauna of Lord Howe island. Proc. Linn. Soc. N. S. Wales, 1899, **24**, 730–745. 1899.1

—— Contribution to Australian ichthyology. Proc. Linn. Soc. N. S. Wales, 1899, **24**, 154–186. 1899.2

—— Studies in the ichthyology of Queensland. Proc. Roy. Soc. Queensland, 1904, **18**, 7–27. 1904.1

—— Notes on exhibits [of fishes] Proc. Roy. Soc. Queensland, 1907, **20**, 27–30. 1907.1

—— On a new Terapon [*T. idoneus* sp. nov.] from the Stanthorpe district, southern Queensland. Proc. Roy. Soc. Queensland, 1907, **20**, 37–40. 1907.2

—— Some new pediculate fishes. Proc. Roy. Soc. Queensland, 1907, **20**, 17–25. 1907.3

Two new genera are proposed, Rhycherus and Tathicarpus.

—— Symbranchiate and apodal fishes new to Australia. Proc. Roy. Soc. Queensland, 1907, **20**, 1–15. 1907.4

—— Descriptions of new Queensland fishes. Proc. Roy. Soc. Queensland, 1908, **21**, 87–98. 1908.1

—— New or little known fishes in the Queensland museum. Ann. Queensland Mus., Brisbane, 1908, no. 9, 1–41. 1908.2

—— On new genera and species of fishes. Proc. Roy. Soc. Queensland, 1908, **21**, 1–26. 1908.3

—— Revision of the Batrachoididæ of Queensland. Ann. Queensland Mus., Brisbane, 1908, no. 9, 43–57. 1908.4

—— On the generic name Chœrops Rüppell. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 315–316. 1909.1

—— On some new fishes from the Queensland coast. Proc. Roy. Soc. Queensland, 1910, **23**, 85–139. 1910.1

—— *Cheilio inermis* (Forskål) Ann. Queensland Mus., Brisbane, 1911, no. 10, 183. 1911.1

—— Descriptions of new or insufficiently described fishes from Queensland waters. Ann. Queensland Mus., Brisbane, 1911, no. 10, 36–58. 1911.2

—— On new or insufficiently described fishes. Proc. Roy. Soc. Queensland, 1911, **23**, 1–55. 1911.3

—— On the genus Gonorhynchus (Gronovius) Ann. Queensland Mus., Brisbane, 1911, no. 10, 30–35. 1911.4

—— Note on *Blanfordia maculata* Casteln. Mem. Queensland Mus., Brisbane, 1912, **1**, 216. 1912.1

—— On some Queensland fishes. Mem. Queensland Mus., Brisbane, 1912, **1**, 26–65. 3 pls. & 2 figs. 1912.2

—— Edible fishes of Queensland. Mem. Queensland Mus., Brisbane, 1913, **2**, 60–80. 3 pls. 1913.1

—— Ichthyological notes. Mem. Queensland Mus., Brisbane, 1913, **2**, 90–93. 1913.2

—— On six new or rare Queensland fishes. Mem. Queensland Mus., Brisbane, 1913, **2**, 81–89. 1913.3

—— Edible fishes of Queensland. Part III. Carangidæ (no. 1) Mem. Queensland Mus., 1915, **3**, 57–98. 10 pls. 1915.1

—— Review of the Queensland Pomacanthinæ. Mem. Queensland Mus., 1915, **3**, 99–116. 1915.2

Ogilby, *J. Douglas,* & **McCulloch,** *Allan R.* A revision of the Australian Orectolobidæ. Proc. Roy. Soc. N. S. Wales, 1908, **42**, 264–299. 2 pls. 1908.1

—— A revision of the Australian therapons with notes on some Papuan species. Mem. Queensland Mus., 1916, **5**, 99–126. 3 pls. & fig. 1916.1

Ogilby, *J. Douglas,* & **Ramsay,** *E. P.* *See* **Ramsay** & **Ogilby.**

Ogilby, *William.* Description of the frontal spine of a second species of Hybodus from the Wealden Clay, Isle of Wight. Mag. Nat. Hist., 1839, n. s. **3**, 279–282. pl. 1839.1

Ogilvie, *G.* The Master-builder's plan, or the principles of organic architecture as indicated in the typical forms of animals. London, 1858. 196 p. 3 pls. 8°. 1858.1

Ogilvie-Gordon, *Maria* (*translator*) History of geology and palæontology to the end of the 19th century, by Karl A. von Zittel. London & New York, 1908. 562 p. 8° (The contemporary science series) 1908.1

Ogilvie-Grant, *W. R.* A revision of the fishes of the genera Sicydium and Lentipes, with descriptions of five new species. Proc. Zool. Soc. London, 1884, 153–172. 2 pls. 1884.1

Ogle, *Fletcher,* & **Eigenmann,** *Carl H.* *See* **Eigenmann** & **Ogle.**

Ogle, *J. W.* Fatal epidemic (typhoid) disease among fish, whose blood during life contained bacteria. Lancet, 1873, **2**, 657. 1873.1

Ogle, *W.* Aristotle on the parts of animals. London, 1882. *See* **Aristotle.**

Ogneff, *J. F.* Ueber die Entwickelung des elektrischen Organes bei Torpedo. Arch. Physiol., Leipzig, 1897, 270–306. 2 pls. 1897.1

—— Einige Bemerkungen über den Bau des schwachen elektrischen Organs bei den Mormyriden. Zeitschr. Wiss. Zool., 1898, **64**, 565–595. pl. 1898.1

—— Ueber die Veränderungen in den Chromatophoren bei Axolotlen und Goldfischen bei dauernder Lichtentbehrung und Hungern. Anat. Anz., 1908, **32**, 591–607. 4 figs. 1908.1

—— Ueber Veränderungen in den Organen der Goldfische nach dreijährigem Verbleiben in der Finsternis [Text in Russian with German résumé] Biol. Zeitschr., Moskva, 1910, **1**, 263–267. 1910.1

—— Ueber die Aenderungen in den Organen der Goldfische nach dreijährigem Verbleiben in Finsternis. Anat. Anz., 1911, **40**, 81–87, 5 figs. 1911.1

Ohm, *P.* Das Seelenleben der Tiere. Stuttgart, 1909. 117 p. 23 figs. 8°. 1909.1

Ohnmais, *C.* Deutsche Benennung unserer Zierfische. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 512–513. 1914.1

Ohshima, *Hiroshi.* Gyorui no hakkōki [Luminous organs of fishes] Dōbuts. Zasshi, Tokyo, 1910, **22**, 10–17; 191–200; 233–245. 2 pls. 1910.1

—— Some observations on the luminous organs of fishes. Journ. Coll. Sci. Tokyo, 1911, **27**, no. 15, 1–25. pl. & 4 figs. 1911.1

Oikoi, pseudonym for **Holmes,** *E. S.*

Okajima, *K.* Die Entwickelung von *Macula neglecta* beim Salmo-Embryo. Anat. Anz., 1911, **40**, 189–195. pl. 1911.1

Okamura, *K.*, & **Marukawa,** *H.* Katsuo gyojō chosa hokoku [Report on researches regarding the fishery ground of *Gymnosarda affinis*] Rept. Fish. Instit., Tokyo, 1909, **5**, 1–18. 1909.1

Oken, *Lorenz* [1779–1851] Lehrbuch der Naturgeschichte. 3 pts. in 6 vols. Leipzig & Jena, 1813–26. 1816.1

Pt. iii. Zoologie. Abth. 2. Fleischthiere. xvi, 1270 p. pl. 1816.

—— Ueber das Athmen der Pricken. Isis (Oken), 1821, **8**, 271–272. 1821.1

—— Etwas über den Pariser Königs-Garten. VI. Fische. Isis (Oken), 1823, **2**, 519–523. 1823.1

—— Ueber die Schädel der Fische und die Bedeutung des Kiemendeckels. Isis (Oken), 1823, 401. 1823.2

—— *Cyprinus uranoscopus* Agass., aus der Isar. Isis (Oken), 1828, **4**, 414. 1828.1

—— Eine neue kleine Art von Cyprinus. Isis (Oken), 1829, 414–415. 1829.1

—— Ueber das Athmen der Pricken. Verh. Ges. Naturf. Freunde Berlin, 1829, **1**, 133–141. 1829.2

Oken, *L.*

—— Allgemeine Naturgeschichte für alle Stände. 13 vols. Stuttgart, 1833–41. pls. and atlas. 8°. 1833.1

Fische, Bd. vi, p. 13–419.

—— Ueber die Natur des *Lepidosiren paradoxa*. Isis (Oken), 1838, 347. *Ibid.*, 1839, 607. *Ibid.*, 1841, 467–469. *Ibid.*, 1843, 441. 1838.1

—— Ueber Anson's Fische in der Mosel. Isis (Oken), 1845, 5–44. 1845.1

Okkelberg, *Peter.* Hermaphroditism in the brook lampreys. Science, 1914, n. s. **39**, 478. 1914.1

Juvenile hermaphroditism, developing later into males.

—— Volumetric changes in the egg of the brook lamprey, *Entosphenus* (*Lampetra*) *wilderi* (Gage) after fertilization. Biol. Bull. Woods Hole, 1914, **26**, 92–99. 2 figs. 1914.2

Decrease in size; colloidal substance eliminated.

Okoshi, *Narinori.* A sketch of the fisheries of Japan. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **5**, pt. 4, 1–39. 1883.1

Olafsen, *Eggert* [1721–1768] Des . . . E. Olafsens und des . . . B. Povelsens Reise durch Island, beschrieben von . . . E. Olafsen. 2 pts. in 1 vol. Kopenhagen & Leipzig, 1774–75. 4°. 1774.1

Description of *Anarrhichas minor*, p. 592. This work was originally published in Danish in 1772. There is also a French translation by Gautier de Peyronie, published in 1802.

Olavius, *Olaus.* Oekonomische Reise durch Island in den nordöstlichen und nord-nordöstlichen Gegenden. Dresden & Leipzig, 1787. 4°. 1787.1

Olavsen, *O.* Um lax-veidina vid Hellufoss i Dramselfunni i Norvegi. Kaupmanahavn, 1786. 8°. 1786.1

Oldham, *Thomas* [1816–1878] On some fossil fish-teeth of the genus Ceratodus from Maledi, south of Nagpur. Mem. Geol. Surv. India, 1859, **1**, 295–309. 2 pls. 1859.1

Oldmixon, pseudonym for **Scott,** *George.*

Oleen, *B. O.* Om Mörrums salmonider. Carlhamn, 1871. 8°. 1871.1

Olfers, *Ignaz Franz Joseph Maria von* [1793–1872] Die Gattung Torpedo in ihren naturhistorischen und antiquarischen Beziehungen erläutert. Berlin, 1831. 35 p. 3 col. pls. 1831.1

Olin, *Washington.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 393. 1879.1

Oliver, *C. D.* Report on the salmon hatchery at Lismore. Ann. Rept. Fish. Ireland, 1902–1903, pt. 2, Append. xi, 353–358. 3 pls. 1902.1

Oliver, *G. van,* & **Bennet,** *J. A.* *See* **Bennet & Oliver.**

Oliver, *Stephen* [pseudonym for **Chatto,** *William Andrew*] Rambles in Northumberland, and on the Scottish border, etc. London, 1835. 348 p. 1835.1

Chap. i. Salmon and other fish in the Tyne. Chap. ii. Spearing salmon. Chap. v. Bull-trout, fly-fishing, unfair fishing. Chap. vi. Trout streams near Wooler.

Olivi, (*Abate*) *Giuseppe* [1769–1795] Zoologia Adriatica, ossia catalogo ragionata degli animali del golfo e delle lagune di Venezia; preceduto da una dissertazione sulla storia fisica e naturale del golfo; e accompagnato da memorie ed osservazioni di fisica storia naturale ed economia, etc. Bassano, 1792. xxxii, 334 p. 9 pls. 4°. 1792.1

—— Storia naturale del Gobio. Padova, 1796. 76 p. 1796.1

—— Verzeichniss verschiedener Fische und Krebse des adriatischen Meerbusens. Triest, 1796. 1796.2

Olivier, *Ernest* [— 1914] For bibliography *see* Liste des travaux d'Ernest Olivier. Rev. Scit. Bourbon., 1914, 27. année, 34–50.

—— Conférence sur la pisciculture. Caen, 1867. 1867.1

—— Faune du Doubs, ou catalogue raisonné des animaux sauvages (mammifères, reptiles, batraciens, poissons) Mém. Soc. Emulation Doubs, 1883, 119–189. 1883.1

—— Les animaux vertébrés de l'Allier. Poissons. Rev. Sci. Bourbon., 1897, **10**, 177–199. 1897.1

—— Un poisson nouveau pour l'Allier. Feuille Jeun. Natural., Paris, 1898, **29**, 29. 1898.1

—— Les saumons. Rev. Sci. Bourbon., 1898, **11**, 100–101. 2 pls. 1898.2

—— Les deux formes du saumon. Rev. Sci. Bourbon., 1901, **14**, 240–241. 1901.1

—— Un poisson nouveau: Lepomis. Rev. Sci. Bourbon., 1901, **14**, 25. 1901.2

—— L'anguille, mœurs et migrations. Rev. Sci. Bourbon., 1910, **23**, 67–71. 1910.1

—— Faune de l'Allier (suppl.) Vertébrés. Rev. Sci. Bourbon. Moulins, 1913, **26**, 85–95. 1913.1

—— Un poisson macroptère [*Barbus fluviatilis*] C. R. 9. Congrès Intern. Zool., Monaco, 1914, 230–232. fig. 1914.1

Olivier, *Ernst,* & **Richet,** —— Les microbes de la lymphe des poissons marins. C. R. Acad. Sci. Paris, 1883, **97**, 119–122. 1883.1

—— Les microbes des poissons marins. C. R. Acad. Sci. Paris, 1883, **96**, 384–386. 1883.2

—— Nouvelles observations sur les microbes des poissons. C. R. Acad. Sci. Paris, 1883, **97**, 674–677. 1883.3

Olivier, *Guillaume Antoine* [1756–1814] Voyage dans l'empire Ottoman, l'Egypte et la Perse. 3 vols. Paris, 1802–1807. 4°. 1802.1

Olliver, *Margaret F.,* & **Dendy,** *A.* *See* **Dendy & Olliver.**

Olmsted, *Francis Allyn.* Incidents of a whaling voyage to which are added observations on the scenery, manners, etc. of the Sandwich and Society islands. New York, 1841. 360 p. 8°. 1841.1

Contains incidental mention of various kinds of fish.

Olofsson, *Ossian.* Bidrag till kännedomen om de ekonomiskt viktiga viskartenas utbredning, fiske, etc. inom södra delen av Arjepluogs socken. Meddel. K. Landtbruksstyr., 1915, no. 195, 41–46. pl. 1915.1

Olsen, *H.* Indberetning tile department for det Indre fra Opsunschefen ved Lofotfiskeriet, Cap. Olsen angaaende forskjellige Fiskeriforholde i Nordmøre og fosen. Christiania, 1865. 16 p. 8°. 1865.1

—— Skrivelse til departementet for det Indre angaaende fiskevaersforholdene i Nordmøre og fosen. Christiania, 1866. 8°. 1866.1

Olsen, *Ole Theodor* [1838 —] The piscatorial atlas of the North sea, English and St. George's channels. Grimsby & London, 1883. viii p. 50 maps. fol. 1883.1

—— The need of an international fisheries society. Trans. Amer. Fisheries Soc. 1907 (1908), 252–254. 1908.1

Olsson, *Pehr Hjalmar* [1873 —] Aland, illustrerad landskapsbeskrifning. Helsingfors, 1895. 111 p. 16 figs. map. 8°. 1895.1

—— Sur *Chimæra monstrosa* et ses parasites. Mém. Soc. Zool. France, 1896, **9**, 499–512. 9 figs. 1896.1

Olsson, *Peter* [1833 —] Om en anmärkningsvärd varietet of *Gunnellus vulgaris* Cuv. [*Centronotus gunellus*] Oefvers. Svensk Vet. Akad. Förh. 1867 (1868), **24**, 605–608. 1868.1

Olt, *A.* Lebensweise und Entwicklung des Bitterlings. Zeitschr. Wiss. Zool., 1893, **55**, 543–575. pl. 1893.1

Oltramare, *H.* Note sur la croissance de la truite arc-en-ciel soumise à l'élevage intensif en stabulation. Etangs & Rivières, 1897, 10. année, 1–5; 65–67. 1897.1

—— Sur l'alevinage de la truite arc-en-ciel en étangs. Etangs & Rivières, 1897, 10. année, 193–197; 209–212. 1897.2

Omalius-de-Hallois, (*Baron*) *Jean Baptiste Julien d'* [1783–1875] Sur deux espèces de poissons du genre Petromyzon. N. Bull. Soc. Philom., Paris, 1808, **7**, 165–166. 1808.1

—— Sur le genre Petromyzon. Journ. Physique, Paris, 1808, **66**, 349–356. 1808.2

O'Malley, *Henry.* Salt solution as an aid to fish-culture. Trans. Amer. Fisheries Soc. 1905 (1906), 49–51. 1906.1

Omboni, *Giovanni* [1829 —] A. de Zigno. Cenni biografici, etc. Padova, 1892. 55 p. 8°. 1892.1

Omond, *James.* Model of the safest and handiest sailing fishing-boat as to hull, sails, spars and rig (In Fish and Fisheries, edited by David Herbert, p. 332–342. 3 pls. Edinburgh & London, 1883) 1883.1

Onffroy de Thoron, *Enr. Vic.* Amérique équatoriale; son histoire pit-

Onffroy de Thoron, *E. V.*
toresque et politique, sa géographie et ses richesses naturelles. Paris, 1866. illust. 8°. 1866.1

Le poisson-musicien, p. 137–144; 408–410. pl.

Onodi, *A. D.* Neurologische Untersuchungen an Selachiern. Intern. Journ. Anat. Hist., 1886, **3**, 325–329. pl. 1886.1

—— Das Ganglion ciliare [bei Fischen] Anat. Anz., 1901, **19**, 118–124. 1901.1

Oordt, *Jan van.* Catalogus van fraaije zeldzaamheden, bestaande in allerlei soorten van vreemde gediertens, visschen, insecten, schelpen enz., gedurende een veertig jarig verblijf in Indien bijeenverzameld. Batavia, 1766. 4°. 1766.1

Op de Macks, *J. A.* Adres aan de eden van de eerste kamer Staten Generaal, betreffende het van regeringswege oprigten eener Nederlandsche kunstmatige vischfokkerij [Amsterdam, 1870] 3 p. fol. 1870.1

Oppel, *Albert.* Ueber Pigmentzellen des Wirbeltierdarmes [Forellen, Cypriniden] Sitzber. Ges. Morphol. Physiol., München, 1889, 1–16. 1889.1

—— Eine Methode zur Darstellung feinerer Strukturverhältnisse der Leber [Forelle, Rotauge] Anat. Anz., 1890, **5**, 143–145. 1890.1

—— Vergleichung des Entwicklungsgrades der Organe zu verschiedenen Entwicklungszeiten bei Wirbeltieren [Pristiurus, Torpedo, Hering, Forelle] Jena, 1891. 8°. 1891.1

—— Lehrbuch der vergleichenden mikroskopischen Anatomie der Wirbeltiere. Jena, 1896. illust. 8°. 1896.1

Der Magen der Fische, p. 28–88. Schlund und Darm, p. 543–550.

—— Die Magendrüsen der Wirbeltiere. Anat. Anz., 1896, **11**, 596–601. 7 figs. 1896.2

—— Ueber die funktionendes Magens [in Petromyzonten, Teleostier, Selachier, Ganoiden] Biol. Centralbl., 1896, **16**, 406–410. 1896.3

Oppenfold, —— *von.* Ueber Binnenfischerei. Circul. Deutsch. Fischerei Ver., 1870, no. 2. 1870.1

Oppenheim, *M.*, **Esch,** *Ernst*, **Solger,** *F.*, & **Jaekel,** *O.* *See* **Esch, Solger** & others.

Oppenheim, *Paul.* Das Alttertiär der Colli Berici in Venetien, die Stellung der Schichten von Priabona und die oligocäne Transgression im alpinen Europa. Zeitschr. Deutsch. Geol. Ges., 1896, **48**, 27–152. 4 pls. 1896.1

Pycnodus toliapicus Ag., p. 121.

—— Die Priabonaschichten und ihre Fauna im Zusammenhange mit gleichhalterigen und analogen Ablagerungen vergleichend betrachtet. Palæontographica, 1901, **47**, 1–348. 21 pls. & 33 figs. 1901.1

Teeth of Lamnidæ and skeleton of *Ephippus nicolisi* Bass.

Oppenheimer, *Josef.* Der Malm der Schwedenschanze bei Brünn. Beiträg. Paläont. Geol. Ost.-Ungarns, Wien, 1907, **20**, 221–271. 3 pls. 1907.1

Oppermann, (*Geheimrat*) —— Bericht des Geh. Ober-Regierungsrathes Oppermann über einen Besuch der Kuffer'schen Fischzuchtanstalt in München. Annal. Landw. Wochenbl., 1867, 7. Jahrg., 397–399. 1867.1

Oppermann, *Karl.* Die Entwicklung von Forelleneiern nach Befruchtung mit radiumbestrahlten Samenfäden. Arch. Mikr. Anat., 1913, **83**, 2. Abth., 140–189; 307–323. 3 pls. & 10 figs. 1913.1

Orbigny, *Alcide Dessalines d'* [1802–1857] Voyage dans l'Amérique Méridionale. Poissons. Paris, 1835–1847. 5 pls. 4°. 1835.1

Orbigny, *Alcide Charles Victor Dessalines d'* [1806–1876] Dictionnaire universel d'histoire naturelle, etc. 16 vols. Paris, 1839–49. illust. 1839.1

Other editions published in 1861 and 1867.

Oreservoir, —— The redfish of Idaho. Chicago Field, 1879, **12**, 308. 1879.1

Organ, *R. B.* The destruction of fish. The power of fish commissioners. Chicago Field, 1880, **13**, 412. 1880.1

Orlandi, *Sigismondo.* Sopra un caso di ermafroditismo nel *Mugil chelo* Cuv. Atti Soc. Ligust. Sci. Nat. Geogr. Genova, 1902, **13**, 3–6. fig. — Boll. Mus. Zool. Anat. Comp. Genova, no. 112, 4 p. fig. 1902.1

Ormezzano, *Q.* Poissons. Bull. Soc. Hist. Nat. Autun, 1906, no. 19 (Proc. Verb.) 120–121. 1906.1

Ornis, pseudonym for **Grinnell,** *George Bird.*

Orr, *Henry*. Beitrag zur Phylogenie der Ganoiden. Inaug. Dissert. Jena, 1885. 37 p. 2 figs. 8°. 1885.1

Orrù, *E*. Intorno alla origine del n. trigemino nei Teleostei. Arch. Ital. Anat. Embriol. 1912–13 (1913), **11**, fasc. 2, 191–206. 2 pls. 1913.1

Orsenigo, *Luigi*. Resistenza di alcuni pesci d'acqua dolce alla diminuzione del contenuto in ossigeno dell' acqua. Rendic. Istit. Lombardo, 1910, 2. ser. **43**, 679–697. 1910.1

—— Intorno alla lunghezza delle anguilline di Montata. Boll. Soc. Lombarda Pesca Acquicolt., 1911, no. 4. 1911.1

—— Sulla introduzione di pesci stranieri nelle nostre acque dolce. Rivist. Mens. Pesca, Pavia, 1912, **7**, 100–102; 135–153. 1912.1

Ortega, *A. Nuñez. See* **Nuñez Ortega,** *A*.

Ortlieb, *Jean*, & **Delvaux,** *E*. *See* **Delvaux** & **Ortlieb.**

Ortmann, *Arnold Edward* [1863 —] Grundzüge der marinen Tiergeographie. Jena, 1896. 8°. 1896.1

—— Ueber "Bipolarität" in der Verbreitung mariner Tiere. Zool. Jahrb. (*Syst. Abth.*), 1897, **9**, 571–595. 1897.1

—— Some remarks on President D. S. Jordan's article on the geographical distribution of fishes. Science, 1901, 2. ser. **14**, 694–695. 1901.1

—— Bericht über die Fortschritte unserer Kenntnis von der Verbreitung der Tiere (1901–03) Geogr. Jahrb., 1904, **26**, 447–477. 1904.1

—— The destruction of the fresh-water fauna in western Pennsylvania. Proc. Amer. Phil. Soc., 1909, **48**, 90–110. pl. 1909.1

Orton, *Edward* [1829–1899] Fish and insects of the Amazon. Amer. Sportsman, 1873, **3**, 82. 1873.1

Orton, *J. H*. On a hermaphrodite specimen of Amphioxus with notes on experiments in rearing Amphioxus. Journ. Mar. Biol. Assoc., 1914, n. s. **10**, 506–512. 5 figs. 1914.1

—— An account of the researches on races of herrings carried out by the Marine Biological Association at Plymouth, 1914–15. Journ. Mar. Biol. Assoc., 1916, n. s. **11**, 71–121. 6 figs. 1916.1

Orton, *James* [1830–1877] The Andes and the Amazon; or, across the continent of South America. London, 1870. illust. map. 8°. 1870.1

Fish in the Napo, p. 226. Fish in Quito valley, p. 107; 347. Fish in the tropics, p. 329. Fishes ejected from volcanoes, p. 107; 132; 143. Fishes of the Amazon, p. 295. Fishing with barbasco, p. 169.

—— Contributions to the natural history of the valley of Quito. Amer. Naturalist, 1871, **5**, 619–626; 693–698. 1871.1

Fish, p. 693–695.

Ortvay, *Tivadar*. Haltenyésztési viszonyaink multja és jelene. Pozsonyi Orvos-Term.-Tud. Egyesal. Verh. Ver. Nat.-Heilk. Presburg, 1899, n. s. **10**, 3–16. 1899.1

Orvis, *Charles F*., & **Cheney,** *A. Nelson* (*editors*) Fishing with the fly; sketches by lovers of the art. Manchester, Vermont, 1883. 15 pls. 4°. 1883.1

Osawa, *Gakutaro*. Bemerkungen über den intertubulären Zellhaufen des Pankreas. Anat. Anz., 1913, **43**, 476–479. fig. 1913.1

Osbeck, *Pehr* [1723–1805] Silurus pinnâ dorsali unicâ, cirris ad os plurimis, descriptus. Anal. Transalp. [n. d.] **2**, 472.

—— Reise nach Ostindien und China, etc. Deutsche Uebersetzung von J. G. Georgius. Rostock, 1765. 1765.1

—— Beskrifning på en fisk, kallad lerbleking [*Gadus pollachius*] K. Vet. Akad. Handl., Stockholm, 1767, 245–247. 1767.1

—— Fragmenta ichthyologiæ hispanicæ. Nov. Acta Acad. Leop.-Carol., 1770, **4**, 99; 104. 1770.1

—— Ritning och kort beskrifning på fisken rua (Abbildung und kurze Beschreibung des Fisches Rua, i. e., *Cyprinus erythropthalmus*) K. Vet. Akad. Handl., Stockholm, 1771, **33**, 153–154. figs. 1771.1

—— A voyage to China and the East Indies, etc. 2 vols. London, 1771. pls. 8°. 1771.2

—— *Petromyzon planeri*, tilförene okänd fisk i Sverige. K. Vet. Akad. Handl., Stockholm, 1804, **25**, 181–183. 1804.1

Osborn, *Henry Fairfield* [1857 —] For list of scientific publications *see* Bibliography of the published writings of Henry Fairfield Osborn [compiled by H. Ernestine Ripley] Lancaster, Pa., 1911. 31 p. 8°.

The same. 2. ed. Lancaster, Pa., 1916. 74 p. Supplement, February, 1917.

—— The origin of the corpus callosum, a contribution upon the cerebral commissures of the vertebrata. Morphol. Jahrb., 1887, **12**, 223–251. 2 pls. 1887.1

Selachians, teleosts (Scorpæna and Serranus) Cyprinidæ, Anguilla and trout are discussed.

—— From the Greeks to Darwin. An outline of the evolution idea. New York, 1894. ix, 259 p. 8° (Columbia University biological series, no. 1) 1894.1

Reprinted 1896, 1899, 1902, 1905, 1908.
Italian translation by Dr. Giuseppe Nobili, Torino, 1901.

—— Memorial tribute to Professor Huxley. Trans. N. Y. Acad. Sci., 1895–96, **15**, 40–50. — Science, 1896, n. s. **3**, 147–154. 1896.1

—— A student's reminiscences of Huxley. Biol. Lectures, Mar. Biol. Lab. Woods Hole, 1896, 29–42. 1896.2

—— Edward D. Cope [memorial biography] Science, 1897, n. s. **5**, 705–717. 1897.1

—— Goode as a naturalist. Science, 1897, n. s. **5**, 373–378. 1897.2

—— A great naturalist: Edward D. Cope. Century Mag., 1897, **55**, 10–15. 1897.3

—— Life and works of Cope. Illustrating the training of a naturalist and the essential characteristics of a great comparative anatomist [Introduction to syllabus, lectures on the Vertebrata by E. D. Cope] Univ. of Pennsylvania, 1898, iii–xxxv. 1898.1

—— [Review of] Arthur Smith Woodward's Outlines of vertebrate palæontology for students of zoology. Nat. Sci., 1899, **14**, 156–159. 1899.1

—— The Devonian lamprey; a classification of the fishes. Science, 1900, n. s. **12**, no. 307, 769. 1900.1

—— Distinctive characters of the mid-Cretaceous fauna. Contrib. Canad. Palæont., 1902, **3**, 1–81. 1902.1

Myledaphus bipartitus Cope, *Mylognathus priscus* Leidy, *Hedronchus sternbergi* Cope, *Ceratodus hieroglyphus* Cope, *Acipenser albertensis* Lambe, *Lepidosteus occidentalis* Leidy, *Rhineastes cruciferus* (Cope) and *Diphyodus longirostris* Lambe are enumerated.

—— Age of the typical Judith river beds. Science, 1903, n. s. **17**, no. 426, 356–357. 1903.1

—— The great Cretaceous fish *Portheus molossus* Cope. Bull. Amer. Mus. Nat. Hist., 1904, **20**, 377–381. pl. & 14 figs. 1904.1

—— Karl Alfred von Zittel. Science, 1904, n. s. **19**, 186–188. 1904.2

—— Life and works of Darwin. Pop. Sci. Monthly, 1909, **74**, 315–343. Abstract in Columbia Spectator, **52**, no. 102. 1909.1

—— Scientific worthies. Dr. Alfred Russel Wallace. Nature, 1912, **89**, 367–370. 1912.1

—— Biographical memoir of Joseph Leidy, 1823–1891. Nat. Acad. Sci. Biogr. Mem., 1913, **7**, 339–396. 1913.1

—— Palæontology. Encycl. Britan., 1911, 11. edition, 579–591. 3 pls. & 11 figs. 1911.1

—— A great naturalist: Alfred Russel Wallace, 1823–1913. Amer. Mus. Journ. 1913, **13**, 331–333. 1913.1

—— Alfred Russel Wallace, 1823–1913. Pop. Sci. Monthly, 1913, **83**, 523–537. 1913.2

—— Eberhard Fraas. Science, 1915, n. s. **41**, 571–572. 1915.1

—— The origin and evolution of life upon the earth. Sci. Monthly, 1916, **3**, 5–22; 177–190; 289–307; 313–334; 502–513; 601–614. Also in book form under the title of "The Origin and evolution of life." New York, 1917. 8°. 1916.1

Osborn, *Henry Fairfield,* & **Lambe,** *Lawrence M.* On vertebrata of the mid-Cretaceous of the North-West territory. Contrib. Canadian Palæon., 1902, **3**, pt. 2, 1–81. 21 pls. & 24 figs. 1902.1

Fishes, p. 16; 28–30.

Osborn, *Henry Fairfield,* **Scott,** *William Berryman,* & **Speir,** *Francis.* Palæontological report of the Princeton Scientific Expedition of 1877. New York, 1878. 146 p. 10 pls. 8°. 1878.1

Pisces, p. 97–106.

Osborn, *Henry Leslie* [1857 —] The squid of the Newfoundland banks in its relation to the American Grand Bank cod fisheries. Amer. Naturalist, 1881, **15**, 366–372. fig. 1881.1

—— Structure of Clinostomum (preliminary notice) Science, 1901, n. s. **13**, 378. 1901.1

First record of its occurrence in black-bass and yellow-perch.

—— Notes on the trematodes of lake Chautauqua, N. Y. Science, 1902, n. s. **15**, 573–574. 1902.1

Records *Microphallus opacus* (Ward) as frequent in black bass. Bunodera (sp.) occurs also in the black bass. Two other undetermined flukes are found in rock bass, darters and sunfish.

—— *Bunodera cornuta*, sp. nov., a new parasite from the crayfish and certain fishes of lake Chautauqua, N. Y. Biol. Bull. Woods Hole, 1903, **5**, 63–73. 7 figs. 1903.1

—— On *Cryptogonimus chyli* (n. g. et n. sp.) a fluke with two ventral suckers. Zool. Anz., 1903, **26**, 315–318. 2 figs. Abstract in Science, 1903, n. s. **17**, 533–534. 1903.2

Brief account of a new species of fluke found in black bass.

—— Destruction of mosquitoes and their larvæ by fish and lime. Journ. Bombay Nat. Hist. Soc., 1907, **17**, no. 3, 832–833. 1907.1

—— On the structure of *Cryptogonimus chyli*, an aberrant distome from fishes of Michigan and New York. Journ. Exper. Zool., 1910, **9**, 517–536. 1910.1

—— On the distribution and mode of occurrence in the United States and Canada of *Clinostomum marginatum*, a trematode parasitic in fish, frogs and birds. Biol. Bull. Woods Hole, 1911, **20**, 350–366. 1911.1

—— On the structure of *Clinostomum marginatum*, a trematode parasite of the frog, bass and heron. Journ. Morphol., 1912, **23**, 189. 1912.1

Osborn, *John H.* Notes and suggestions concerning the Florida shad fishery. Bull. U. S. Fish Comm. 1881 (1882), **1**, 351. 1882.1

—— Shad fishing on the St. John river. Bull. U. S. Fish Comm. 1882 (1883), **2**, 132. 1883.1

Osborne, *Harold J.*, & **Treacher,** *Llewellyn. See* **Treacher & Osborne.**

Osborne, *W. A.*, & **Muntz,** *E.* The action of carbon dioxide on the respiration of the goldfish. Biochem. Journ., Liverpool, 1906, **1**, 377–382. 1906.1

Osburn, *Raymond Carroll* [1872 —] The fishes of Ohio; an authenticated list, with especial reference to occurrence and distribution. Ohio State Acad. Sci. Special papers, 1901, no. 4, 1–105. 1901.1

—— The functions of the fins of fishes. Science, 1906, n. s. **23**, 585–587. — Bull. N. Y. Zool. Soc., no. 25, 347–348. 1906.1

—— The origin of vertebrate limbs. Recent evidence upon the problem from studies on primitive sharks. Ann. N. Y. Acad. Sci., 1906–07, **17**, 415–436. 1906.2

—— New evidence from primitive sharks on the origin of the limbs of vertebrates. Science, 1907, n. s. **25**, 729–730. 1907.1

—— Observations on the origin of the paired limbs of vertebrates. Amer. Journ. Anat., 1907, **7**, 171–194. 5 pls. 1907.2

—— Aquarium exhibits. Bull. N. Y. Zool. Soc., 1910, no. 42, 702–704. 1910.1

—— Cichlid fish at the aquarium. Bull. N. Y. Zool. Soc., 1910, no. 42, 704–705. 1910.2

—— "Fish stories." By Charles Frederick Holder and David Starr Jordan. Review in Science, 1910, n. s. **32**, 379. 1910.3

—— Local tuna fishing. Bull. N. Y. Zool. Soc., 1910, no. 42, 711. 1910.4

—— A marine goldfish (*Apogon sellicauda*) Bull. N. Y. Zool. Soc., 1910, no. 42, 710. fig. 1910.5

—— A rare fish [*Polyprion americanus*] from the New Jersey coast. Science, 1910, n. s. **32**, 568. 1910.6

—— Sailfish [*Istiophorus nigricans*] Bull. N. Y. Zool. Soc., 1910, no. 42, 705. 1910.7

—— Transporting live animals with the aid of oxygen. Bull. N. Y. Zool. Soc., 1910, no. 42, 701–702. 3 figs. 1910.8

—— Wreckfish or stone-bass (*Polyprion americanus*) Bull. N. Y. Zool. Soc., 1910, no. 42, 705. fig. 1910.9

—— Young thread-fish. Bull. N. Y. Zool. Soc., 1910, no. 42, 711–712. illust. 1910.10

Osburn, *R. C.*

—— The effects of exposure on the gill filaments of fishes. Trans. Amer. Fisheries Soc. 1910 (1911), 371–376. Abstract in Science, 1911, n. s. **33**, 157. 1911.1

—— The freshwater eel. Bull. N. Y. Zool. Soc., 1911, no. 44, 742–744. 2 figs. 1911.2

—— Goitre in fishes. Bull. N. Y. Zool. Soc., 1911, no. 48, 808–809. 1911.3

A review of Marine, David, & Lenhart, C. H., "Observations and experiments on the so-called thyroid carcinoma of brook trout (*Salvelinus fontinalis*) and its relation to ordinary goitre."

—— Green moray. Bull. N. Y. Zool. Soc., 1911, no. 44, 736. 1911.4

—— How fishes breathe. Bull. N. Y. Zool. Soc., 1911, no. 48, 810–811. 1911.5

—— Kensico lake bass. Bull. N. Y. Zool. Soc., 1911, no. 48, 805. fig. 1911.6

—— Key West fishes at the Aquarium. Bull. N. Y. Zool. Soc., 1911, no. 48, 813–817. 11 figs. 1911.7

—— New Bermuda exhibits. Bull. N. Y. Zool. Soc., 1911, no. 48, 805–806. 1911.8

—— Oceanic bonita and little tunny. Bull. N. Y. Zool. Soc., 1911, no. 48, 811. 1911.9

—— The redfish. Bull. N. Y. Zool. Soc., 1911, no. 48, 813. 1911.10

—— Skates and flounders. A study in adaptation. Bull. N. Y. Zool. Soc., 1911, no. 44, 744–746. 2 figs. 1911.11

—— Cobia or crab-eater. Zool. Soc. Bull., 1911, 812. 1911.12

—— The balanced aquarium. Bull. N. Y. Zool. Soc., 1912, no. 50, 839–854. 21 figs. Abstract in Scient. Amer. Suppl., 1912, no. 1895, 263–266. 8 figs. 1912.1

—— The big groupers. Bull. N. Y. Zool. Soc., 1912, no. 54, p. 932. 1912.2

—— Fishes that produce living young. Bull. N. Y. Zool. Soc., 1912, no. 54, 930–931. fig. 1912.3

—— Key West fishes. Bull. N. Y. Zool. Soc., 1912, no. 54, 937–938. 6 figs. 1912.4

—— The orange filefish. Bull. N. Y. Zool. Soc., 1912, no. 54, 933–934. 2 figs. 1912.5

—— Our black-spotted trout. Bull. N. Y. Zool. Soc., 1912, no. 54, 932–933. 1912.6

—— The swordfishing industry. Bull. N. Y. Zool. Soc., 1912, no. 54, 931. 1912.7

—— Blackfish and cunner. Bull. N. Y. Zool. Soc., 1913, **16**, no. 56, 966–968. figs. 1913.1

—— The pugnacity of fishes. Bull. N. Y. Zool. Soc., 1913, **16**, no. 56, 969–970. fig. 1913.2

—— Ugly fishes. Bull. N. Y. Zool. Soc., 1913, **16**, no. 56, 961–965. figs. 1913.3

—— The sea-horse in ancient history. Bull. N. Y. Zool. Soc., 1915, **18**, 1211–1212. 4 figs. 1915.1

See also article on "Olden time knowledge of Hippocampus" in Ann. Rept. Smithson. Inst. 1915 (1916), 349–358.

—— The care of home aquaria. New York, 1914. 63 p. illust. 8° (New York Aquarium Nature series) 1914.1

Osburn, *Raymond C.*, & **Nichols,** *John Treadwell.* Shore fishes collected by the "Albatross" expedition in lower California with descriptions of new species. Bull. Amer. Mus. Nat. Hist., 1916, **35**, 139–181. 15 figs. 1916.1

Osburn, *Raymond Carroll,* **Parker,** *J. B.*, & **Williamson,** *E. B.* *See* **Parker, Williamson & Osburn.**

Osburn, *Raymond Carroll,* **Sumner,** *F. B.*, & **Cole,** *L. J.* *See* **Sumner, Osburn & Cole.**

Osburn, *Raymond Carroll,* & **Williamson,** *E. B.* A list of the fishes of Franklin county, Ohio, with a description of a new species of Etheostoma. 6. Ann. Rept. Ohio Acad. Sci., 1898, 11–20. 1898.1

—— Additional notes on the fishes of Franklin county, Ohio. 7. Ann. Rept. Ohio Acad. Sci., 1899, 33–34. 1899.1

Oseretskovsky, *N.* De calculo et Acipensere sturine exemplo. Acta Acad. Petropol., 1782, **1**, 235–246. pl. 1782.1

Osgood, *Wilfred Hudson* [1875 —] [Notice of M. C. Marsh's paper on "The gas disease in fishes"] Science, 1904, n. s. **19**, 701. 1904.1

O'Shaughnessy, *Arthur W. E.* (*translator*) On venomous fishes. Ann. Mag. Nat. Hist., 1867, 3. ser. **20**, 153–167. 1867.1

—— Descriptions of new species of Gobiidæ in the collection of the British Museum. Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 144–148. 1875.1

Oshima, *Kintaro.* Some observations on the luminous organs of fishes. Journ. Coll. Sci., Imp. Univ. Tokyo, 1911, **27**, art. 15, 1–25. pl. 1911.1

Osorio, *Balthazar.* Additamento ao catalogo dos peixes de Portugal. Jorn. Sci. Acad. Lisboa, 1886, **12**, 167–185. 1886.1

—— Estudos ichthyologicos acerca da fauna dos dominios portuguezes na Africa. 1. Nota. Ilhas de Cabo Verde. Jorn. Sci. Acad. Lisboa, 1890, 2. ser. **1**, 277–282. *Ibid.*, 1894, **3**, 128–140; 173–184. 1890.1

A list of the fishes of the Cape Verde archipelago.

—— Peixes maritimos d'Angola. Jorn. Sci. Acad. Lisboa, 1892, 2. ser. **2**, 50. *Ibid.*, 1894, 2. ser. **3**, 128. 1892.1

—— Peixes maritimos das ilhas de S. Thomé, do principe e ilheo das Rolas. Jorn. Sci. Acad. Lisboa, 1892, 2. ser. **2**, 205. *Ibid.*, 1894, 2. ser. **3**, 173. 1892.2

—— D'algumas especies a juntar ao catalogo dos peixes de Portugal de Capello. Jorn. Sci. Acad. Lisboa, 1894, 2. ser. **3**, 186–188. 1894.1

—— Peixes da ilha d'Anno Bom. Jorn. Sci. Acad. Lisboa, 1895, 2. ser. no. 12, 245–247. 1895.1

—— Peixes de Dahomy. Jorn. Sci. Acad. Lisboa, 1895, 2. ser. no. 12, 252–253. 1895.2

—— Segundo appendice ao catalogo dos peixes de Portugal de Felix Capello. Jorn. Sci. Acad. Lisboa, 1895, 2. ser. **3**, 254. 1895.3

—— Peixes e crustaceos da ilha de Fernão do Pó e de Eloby. Jorn. Sci. Acad. Lisboa, 1896, 2. ser. **4**, 55–58. 1896.1

—— Les poissons d'eau douce des îles du golfe de Guinée. Jorn. Sci. Acad. Lisboa, 1896, 2. ser. **4**, 59–64. 1896.2

—— Peixes de Mattosinhos. Terceiro appendice ao catalogo dos peixes de Portugal de Felix Capello. Jorn. Sci. Acad. Lisboa, 1897, 2. ser. **4**, 131–159. 1897.1

—— Da distribuição geographica dos peixes e crustaceos colhidos nas possessões portuguezas d'Africa occidental e existentes no Museo Nacional de Lisboa. Jorn. Sci. Acad. Lisboa, 1898, 2. ser. **5**, 185–202. 1898.1

—— Breve noticia acerca de alguns peixes e crustaceos colhidos nas possessões portuguezas d'Africa occidental. Jorn. Sci. Acad. Lisboa 1905 (1906), 2. ser. **7**, no. 26, 97–102. 1906.1

—— Description d'un poisson des profondeurs appartenant à un genre nouveau et trouvé sur les côtes du Portugal. Jorn. Sci. Acad. Lisboa 1905 (1906), 2. ser. **7**, 172–174. pl. 1906.2

—— Indicacões de algumas especies que devem ser accrescentadas a fauna ichthyologica da ilha de S. Thomé. Jorn. Sci. Acad. Lisboa 1905 (1906), 2. ser. **7**, 156–158. 1906.3

—— Noticia sobre uma especie a juntar ao catalogo dos peixes de Portugal de Felix Capello. Jorn. Sci. Acad. Lisboa 1905 (1906), 2. ser. **7**, 151–152. 1906.4

—— Contribuição para o conhecimento da fauna bathypelagica visinha das costas de Portugal. Memorias Museu Bocage, Lisboa, 1909, **1**. 1909.1

—— Appendice a memoria intitulada: Contribuição para o conhecimento da fauna bathypelagica visinha das costas de Portugal. Memorias Museu Bocage, Lisboa, 1911, **3**. 1911.1

Osswald, *Hans. Danio albolineatus.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 619–620. fig. 1912.1

—— Ueber den Schwertkärpfling (*Xiphophorus helleri*) Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 250–252. 1912.2

—— Haltung und Zucht von *Badis badis.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 65–66. fig. 1913.1

—— *Haplochilus macrostigma.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 905–906. fig. 1913.2

—— *Platypœcilus maculatus* var. *rubra.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 374–375. fig. 1913.3

Osswald, *H.*

—— Vom *Polycentrus schomburgkii.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 754–755. fig. 1913.4

—— *Nuria danrica* var. *malabarica,* seine Pflege und Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 353–356. fig. 1914.1

Ostenfeld, *Carl Emil Hansen* [1873 —] Naturhistoriske rejsebreve fra den danske oceanografiske expedition med S. S. "Thor" til middelhavet i sommeren 1910. Naturen, Bergen, 1912, **36**, 16–23; 52–58; 88–93; 111–118. 1912.1

Ostenfeld, *Carl Emil Hansen,* & **Wesenberg-Lund,** *C.* Catalogue des espèces de plantes et d'animaux observées dans le plankton recueilli pendant les expéditions périodiques depuis le mois d'août 1805 jusqu'au mois de mai 1908. Conseil Perm. Intern. Explor. de la Mer, Public. de Circonstance, 1909, no. 48. 151 p. 1909.1

Osterbol, *A.* Beretning om fiskeriet i Agger i efteraaret 1872. Fiskeritidskr. Finl., 1873, 7. Jahrg., 195–208. 1873.1

—— Beretning om fiskeriet i Agger i foraaret 1873. Norsk Tidskr. Fiskeri, 1874, n. s. 1. Jahrg., 162–173. 1874.1

—— Udbyttet af fiskeriet ved Agger i 1875. Norsk Tidskr. Fiskeri, 1876, n. s. 3. Jahrg., 200–201. 1876.1

—— Udbyttet af fiskeriet ved Agger i 1876. Norsk Tidskr. Fiskeri, 1876, n. s. 4. Jahrg., 132–134. 1876.2

—— Udbyttet af fiskeriet ved Agger i 1877. Norsk Tidskr. Fiskeri, 1878, n. s. 4. Jahrg., 362. 1878.1

—— Udbyttet af fiskeriet ved Agger i 1878. Norsk Tidskr. Fiskeri, 1879, n. s. 5. Jahrg., 239. 1879.1

Osterby, *R.* Beretning fra selskabet for konstig fiskeavl i Odense. Fiskeri Tidskr. Finl., 1870, 4. Jahrg., 96–99. 1870.1

Ostroumov, *Alekseyeĭ Aleksandrovich* [1858 —] Ueber den Blastoporus und den Schwanzdarm bei Eidechsen und Selachiern. Zool. Anz., 1889, **12**, 364–366. 1889.1

—— Ueber die Froriepschen Ganglien bei Selachiern. Zool. Anz., 1889, **12**, 363–364. 1889.2

—— Zoologische Excursion nach Mangyschlack und Basatschi [Text in Russian] Protok. Obšč. Estest. Kazan 1889–90 (1890), Append. 113. 16 p. 1890.1

—— Studien zur Phylogenie der äusseren Genitalien bei Wirbelthieren. Mitth. Zool. Stat. Neapel, 1893, **11**, 46–55. 2 pls. 1893.1

—— Comptes-rendus des dragages et du plancton de l'expédition du "Selianik" [Text in Russian] Bull. Acad. Sci. St. Pétersb., 1896, 5. sér. **5**, 33–92. 1896.1

—— Zwei neue Relicten-Gattungen im Azowschen Meere. Zool. Anz., 1896, **19**, 30. 1896.2

—— Résultats scientifiques de l'Expédition "Atmanai." III. Poissons de la mer Asov [Text in Russian] Bull. Acad. Sci. St. Pétersb., 1897, 5. sér. **7**, 251–267. 2 figs. 1897.1

—— Zur Entwicklungsgeschichte des Sterlets (*Acipenser ruthenus*) Zool. Anz., 1906–08. 1906.1

i. Embryonalcloake und Bildung des Sinus urogenitalis. Zool. Anz., 1906, **29**, 515–517. 2 figs.

ii. Die Myomeren des Kopfes. *Ibid.*, 1906, **30**, 275–278; 495–498. 3 figs.

iii. Der Plexus cervicalis. *Ibid.*, 1907, **31**, 723–725. fig.

iv. Das Gefässsystem des Kopfes. *Ibid.*, 1907, **32**, 183–185; 404–407. fig.

v. Ueber die Unbeständigkeit der Ganglien in der Occipitalregion. *Ibid.*, 1908, **33**, 504–505.

vi. Der Müllersche Gang. *Ibid.*, 1908, **33**, 505–507.

—— Ueber das Wachstum der Jungen des Sterlets [Text in Russian] Trav. Soc. Nat. Univ. Kasan, 1910, **42**, livr. 3. 43 p. 1910.1

—— Sur les périodes de croissance chez les sterletes [Text in Russian] Trav. Soc. Nat. Univ. Kasan, 1911, **43**, livr. 6. 48 p. pl. 1911.1

—— Das zweite Jahr des Wachstums des Sterlets [Text in Russian] Trd. Obšč. Jest., Kazanĭ, 1912, **45**, pt. 1, 1–24. 1912.1

—— Das dritte Jahr des Wachstums von *Acipenser ruthenus* [Text in Russian] Kasan, 1913. 24 p. pl. 8°. 1913.1

Ostrovskich, *P.* Der Fischfang und das Fischereigewerbe im Norden des Gouv. Jenisseisk [Text in Russian] Vĕst. Rybopromyšl. St. Petersb., 1909, **24**, 160–181; 205–225. 1909.1

Oswald, *F.* Ueber einen Fund von siebenzehn Stück Zähnen des *Ptychodus latissimus* in einer Plänerkalkgrube bei Teplitz. Zeitschr. Deutsch. Geol. Ges., 1851, **3**, 531–535. 1851.1

Oswald, *Felix* [1866 —] A fish out of water. Knowledge, 1907, n. s. **4**, 35–36. 3 figs. 1907.1

Otaki, *Keinosuke.* Pleuronectidæ of Japan. Journ. Fisheries Bureau, Tokyo, 1897, **6**, 4–9. 4 pls. 1897.1

Otaki, *Keinosuke,* & **Fujita,** *Tsunenobu. See* **Fujita** & **Otaki.**

Otaki, *Keinosuke,* **Fujita,** *Tsunenobu,* & **Higurashi,** *Tadashi.* Fishes of Japan; an account principally of economic species. Tokyo, 1903–04. 58 p. 9 pls. Atlas with 8 pls. 8°. 1903.1

The same. 1906. 38 p. 6 pls. Atlas with 4 pls.

The same. 1907. 50 p. 9 pls. Atlas with 4 pls.

Oterendorp, *C. G. von.* Im Winter auf der Nordsee. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 449–450; 457–458; 477–478; 497–498; 507–508. 1880.1

—— A visit to the chief fishing places of Jutland. Bull. U. S. Fish Comm. 1887 (1889), **7**, 101–104. 1889.1

Otsuki, *S.,* **Inouye,** *R.,* **Bharatkar,** *K. C.,* **Suzuki,** *U.,* & **Mihata,** *M. See* **Suzuki, Mihata** & others.

Otter, pseudonym for **Alfred,** *H. J.*

Otterstrøm, *Andreas Nicolai.* Aldersbestemmelse af fisk. Grenen, 1906, 4. Jahrg., 217–221. 1906.1

—— Eggs and young of fishes in the Danish waters [Text in Danish] Rept. Danish Biol. Stat., 1906, **13**. 85 p. 1906.2

—— Torskeyngel i Ostersoen. Dansk Fiskeritidskr., 1906, n. s. 4. Jahrg., 92. 1906.3

—— Sildens afhængighed af forskellige hydrografiske og meteorologiske forhold i Store Bælt [The dependence of the herring on different hydrographic and meteorological conditions in the Great Belt] Skrift. Udgiv. Komm. Havunders., Kjøbenhavn, 1910, **6**, 52. 1910.1

Otterstrøm, *C. V.* Fisk. I Pigfinnefisk (In Danmarks Fauna, vol. vi. 198 p. Kjøbenhavn, 1912) 1912.1

Otto, *Adolph Wilhelm* [1786–1845] Conspectus animalium quorundam maritimorum, etc. Inaug. Dissert. Vratislaviæ, 1821. 1821.1

—— Ueber eine neue Roche (*Propterygia hypostica*) und eine gleichfalls neue Molluske (*Diphyllidia lineata*) Nova Acta Acad. Leop.-Carol., 1821, **10**, 111–126. 2 pls. — Bull. Sci. Nat. (Férussac), **2**, 93–94. 1821.2

—— Wegen Propterygia. Isis (Oken), 1822 (Liter. Anz.), 463–465. 1822.1

—— Ueber die Gehörorgane des *Lepidoleprus trachyrhynchus* und *L. cœlorhynchus.* Zeitschr. Physiol. (Tiedemann & Treviranus), 1826, **2**, pt. 1, 86–96. fig. Abstract in Bull. Sci. Nat. (Férussac), 1826, **9**, 360–363. 1826.1

—— Ueber ein Rudiment vom Becken bei einer Forellenart. Zeitschr. Physiol. (Tiedemann & Treviranus), 1826, **2**, 301–304. 1826.2

—— Monstrorum sexcentrorum descriptio anatomica. Vratislaviæ, 1841. 266 p. pl. 1841.1

Otto, *Bernardus Christianus* [1745–1835] Beschreibung des natterförmigen Nadelfisches [*Syngnathus ophidium*] Schrift. Ges. Naturf. Freunde Berlin, 1783, **3**, 434–440. 1783.1

Otto, *Gustav.* Ueber die Wirkung einwertiger Alkohole auf Forellen und deren Dottersackbrut. Ein Beitrag zur Meyer-Overtonschen Narkosetheorie. Zeitschr. Biol., 1912, **59**, 165–170. 1912.1

Otto, *H.* Beschuppung der Brevilinguier und Ascalaboten [n. p.] 1908. fig. 1908.1

Otto, *Robert.* Beitrag zur Kenntniss der Fischgalle. Zeitschr. Chem., 1867, **3**. 1867.1

Ottoni, *G.* Pesci dei dintorni di Mantova. Padova, 1852. 8°. 1852.1

Oudart, *Paul Louis.* Cours d'histoire naturelle, contenant les principales espèces du règne animal, classées méthodiquement et lithographiées par M. Oudart. Paris, 1825. 4°. 1825.1

Oudemans, *Antoine Corneille.* The great sea-serpent; an historical and critical treatise. With the reports of 187 appearances, the suppositions and suggestions of scientific and non-scien-

Oudemans, *A. C.* tific persons, and the author's conclusions. London, 1893. 608 p. 8°. 1893.1

Sharks, Regalecus and Gymnetrus as "sea-serpents," p. 423, 445, 465.

Oustalet, *E.* Le diable de mer rapporté par M. L. Diguet du golfe de Californie. La Nature, 1899, **25**, 273–274. fig. 1899.1

—— La longévité chez les animaux vertébrés. La Nature, 1900, **28**, 378–379. 1900.1

Ovalle, *Félix Pinto.* El ferrocarril lonjitudinal i el abaratamiento del pescado. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 505–507. 1912.1

—— El proyecto de lei de bosques, pesca i caza ante el senado. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 289–318. 1912.2

—— Lejislación sobre bosques, pesca i caza necesidades antiquas. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 433–435. 1912.3

—— Los servicios de bosques, pesca i caza i la prensa. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 361–363. 1912.4

Overbeck, *G.* Noch ein Wort über Forellenreiche. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 121–122. 1879.1

—— Der tiefe Californische Bruttrog. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 185–186; 193–194. 1879.2

—— Forellenfutter. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 299. — Erste Oesterr.-ungar. Fischerei Zeitg., 1880, 121–122. 1880.1

—— Sind Bastardfische fruchtbar oder steril? Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 67. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 36. 1880.2

Ovsyannikov, *Filipp Vasil'evich* [1827–1906] Disquisitiones microscopicæ de medullæ spinalis textura, imprimis in piscibus factitatæ. Inaug. Dissert. Dorpati, 1854. 51 p. 3 pls. 8°. 1854.1

—— Ueber das Gehörorgan von *Petromyzon fluviatilis.* Mém. Acad. Sci. St. Pétersb., 1864, **8**, no. 7. 19 p. 2 pls. Also separate; Leipzig, 1865. 4°. 1864.1

—— Ueber die feine Structur des Kleinhirns der Fische. Bull. Acad. Sci. St. Pétersb., 1864, **7**, 157–166. 1864.2

—— Ueber die Inauguraldissertation des Herrn Dr. Kutschin das Rückenmark der Neunaugen betreffend, nebst einigen eigenen Beobachtungen über das Rückenmark der Knochenfische und anderer Thiere. Bull. Acad. Sci. St. Pétersb., 1864, **7**, 137–145. 1864.3

—— Sur l'organe de l'ouïe du *Petromyzon fluviatilis.* Bull. Acad. Sci. St. Pétersb., 1865, **8**, 220–222. 1865.1

—— Ueber das Centralnervensystem des *Amphioxus lanceolatus.* St. Petersburg, 1868. pls. 8°. 1868.1

—— Ueber die Entwickelung und den Bau der Samenkörperchen der Fische. Bull. Acad. Sci. St. Pétersb., 1869, **12**, 245–248. — Monthly Micr. Journ., **1**, 312–313. 1869.1

—— Die Entwickelungsgeschichte der Flussneunaugen (*Petromyzon fluviatilis*) Bull. Acad. Sci. St. Pétersb., 1870, **14**, 325–329. 1870.1

—— Zur Entwickelungsgeschichte des *Petromyzon fluviatilis* und *Acipenser ruthenus.* St. Petersburg, 1870. fig. 8°. 1870.2

—— The sturgeon's development. Abstract in Pop. Sci. Rev., 1872, **11**, 426–427. — Amer. Naturalist, 1872, **6**, 175. 1872.1

—— Ueber einen neuen Parasiten in den Eiern des Sterlet. Bull. Acad. Sci. St. Pétersb., 1872, **17**, 104–108. — Zeitschr. Wiss. Zool., 1872, **22**, 292. 1872.2

—— Ueber neue Tastorgane beim Sterlet. Zeitschr. Wiss. Zool., 1872, **22**, 292. 1872.3

—— Ueber die ersten Vorgänge der Entwickelung in den Eiern des *Coregonus lavaretus.* Bull. Acad. Sci. St. Pétersb., 1874, **9**, 225–235. — Mél. Biol. Acad. Sci. St. Pétersb., 1873, **9**, 198–212. 1874.1

—— Ueber das sympathische Nervensystem der Flussneunauge, nebst einigen histologischen Notizen über andere Gewebe desselben Thieres. Bull. Acad. Sci. St. Pétersb., 1883, **28**, 439–448. Abstract in Arb. Naturf. Ges., 1883, **14**, pt. 1, 3–4. 1883.1

—— Studien über das Ei hauptsächlich bei Knochenfischen. Mém. Acad. Sci. St. Pétersb., 1885, **33**, 1–54. 3 pls. 1885.1

—— Ueber das dritte Auge bei *Petromyzon fluviatilis*, etc. Mém. Acad. Sci. St. Pétersb., 1888, **36**, no. 9, 60. 1888.1

—— Sur l'embryologie du *Petromyzon fluviatilis*. Bull. Acad. Sci. St. Pétersb., 1889, 2. sér. **1**, 83–95. 1889.1

—— Ueber den Bau des Parietalauges beim Neunauge. Trans. Soc. Nat. St. Pétersb., 1889, **20**, pt. 1, 1–3. 1889.2

—— Results of researches on the pineal eye of reptiles, amphibians and fishes [Text in Russian] Rev. Soc. Nat. St. Pétersb., 1891, 100–111; 175. figs. 1891.1

—— Zur Entwickelungsgeschichte des Flussneunauges. Vorläufige Mittheilung. Mél. Biol. Acad. Sci. St. Pétersb., 1891, **13**, 55–67. — Ann. Mag. Nat. Hist., 6. ser. **11**, 30–43. Abstract in Journ. Roy. Micr. Soc., 1892, 460. 1891.2

—— Das Rückenmark und das verlängerte Mark des Neunauges. Mém. Acad. Sci. St. Pétersb., 1903, 8. sér. **14**, no. 4. 32 p. pl. 1903.1

Ovsyannikov, *Filipp,* **Kovalevsky,** *Aleksander Onufrievich,* & **Wagner,** *Rudolph. See* **Kovalevsky, Ovsyannikov & Wagner.**

Owen, *David Dale,* & **Norwood,** *J. G. See* **Norwood & Owen.**

Owen, (*Sir*) *Richard* [1810–1890] For biography *see* Owen, R. The life of Richard Owen . . . with the scientific portions revised by C. D. Sherborn. 2 vols. London, 1894.

—— On a new species of the genus Lepidosiren of Fitzinger and Natterer [*L. annectens*] Proc. Linn. Soc. London, 1839, **1**, 27–32. — Ann. Sci. Nat. (*Zool.*), 2. sér. **11**, 371–378. — Notizen (Froriep), **11**, 19–23. — Trans. Linn. Soc. London, **18**, 327–362. — Arch. Naturgesch., 5. Jahrg., 398–403. 1839.1

—— On the anatomy of the genus Lepidosiren, and description of a new species [*L. annectens*] Ann. Nat. Hist., 1839, **3**, 265. — Rev. Zool., 1839, 190. 1839.2

—— Recherches sur la structure et la formation des dents des squaloïdes, et application des faits observés à une nouvelle théorie du développement des dents. Ann. Sci. Nat. (*Zool.*), 1839, 2. sér. **12**, 209–220. pl. Extracts in C. R. Acad. Sci. Paris, **9**, 784–788. — Notizen (Froriep), **13**, 81–86. *Ibid.*, **17**, 81–88. — Rev. Zool., 1839, 369. 1839.3

—— Sur la structure microscopique et le développement des dents des poissons gymnodontes. Ann. Sci. Nat. (*Zool.*), 1839, 2. sér. **12**, 347–352. pl. — C. R. Acad. Sci. Paris, **10**, 74–78. 1839.4

—— Odontography; or a treatise on the comparative anatomy of the teeth, etc. 2 vols. London, 1840–45. 168 pls. 1840.1

—— On the microscopic structure of the teeth of the *Lepidosiren annectens*. Ann. Mag. Nat. Hist., 1840, **7**, 211. 1840.2

—— Sur la structure intime et le développement des dents des poissons Gymnodontes. C. R. Acad. Sci. Paris, 1840, **10**, 74–78. 1840.3

—— Untersuchungen über die Struktur und Entwickelung der Zähne der Squaloiden. Neue Notizen (Froriep), 1840, **13**, no. 270. *Ibid.*, 1841, **17**, no. 358. 1840.4

—— Description of the *Lepidosiren annectens*. Trans. Linn. Soc. London, 1841, **18**, 327–361. 5 pls. Résumé in Proc. Linn. Soc. London, **1**, 27–32. — Ann. Sci. Nat. (*Zool.*), 2. sér. **11**, 371–378. — Notizen (Froriep), **11**, 19–23. — Arch. Naturgesch., 5. Jahrg., 398–403. — Ann. Mag. Nat. Hist., **7**, 358–359. — L'Institut, **8**, no. 326, 114–116. — Isis (Oken), 1839, 604–607. *Ibid.*, 1843, 440–444. 1841.1

—— On the structure of fossil teeth from the central or corn-stone division of the Old Red Sandstone, indicative of a new genus of fishes, or fish-like Batrachia, for which is proposed the name of Dendrodus. Micr. Journ., 1841, **1**, 4–8; 17–20. 1841.2

—— Lectures on the comparative anatomy and physiology of the vertebrate animals, delivered at the Royal College of Surgeons of England, in 1844 and 1846. Part I. Fishes. London, 1846. xi, 308 p. 81 figs. 1846.1

Review in Ann. Mag. Nat. Hist., 1847, **19**, 187–190.

—— Teleology of the skeleton of fishes. Edinburgh New Phil. Journ., 1846, **42**, 216–227. 1846.2

—— Notice of an ichthyolite from Sheppey, in the collection of Mr. Tennant. Ann. Mag. Nat. Hist., 1847, **19**, 25–27. figs. 1847.1

Myliobatis striatus.

Owen, *R.*

—— On the archetype and homologies of the vertebrate skeleton, with tables of the synonyms of the vertebral elements and bones of the head of fishes, reptiles, birds, mammals and man. London, 1848. fig. 8°. 1848.1

—— On the structure of the teeth of some fossil fish of the Carboniferous period. Ann. Mag. Nat. Hist., 1849, 2. sér. **3**, 41–42. 1849.1

Dentine and ganoine in sharks and teleosts.

—— Descriptive catalogue of the fossil organic remains of Reptilia and Pisces contained in the Museum of the Royal College of Surgeons of England. London, 1854. xix, 184 p. 4°. 1854.1

—— On the successful transplanting of tench, carp and other pond fishes. Journ. of the South Arts, London, 1860, **9**, 34. 1860.1

—— On the homologies of the bones of the head of the *Polypterus niloticus* [*bichir*] Rept. Brit. Assoc. Adv. Sci., 32. meet., 1862 (1863), 118. 1863.1

—— Description of portions of jaws of a large extinct fish (*Stereodus melitensis* Owen) probably a "cycloid" with "sauroid dentition" from the middle beds of the Maltese Miocene. Geol. Mag., 1865, **2**, 145–147. fig. 1865.1

—— On a genus and species of sauroid fish [*Ditaxiodus impar* Ow.] from the Kimmeridge clay of Culham, Oxfordshire. Geol. Mag., 1866, **3**, 107–109. 2 pls. 1866.1

—— On a genus and species of sauroid fish [*Thlattodus suchoïdes* Ow.] from the Kimmeridge clay of Norfolk. Geol. Mag., 1866, **3**, 55–57. pl. 1866.2

—— On the anatomy of vertebrates, etc. 3 vols. London, 1866–68. 8°. 1866.3

Vol. i, Fishes and reptiles. 650 p. 452 figs.

—— Fish-remains from the Northumbrian coal field. Geol. Mag., 1867, **4**, 424–425. 1867.1

—— On the dental characters of genera and species, chiefly of fishes, from the low main seam and shales of coal, Northumberland. London, 1867. 72 p. 14 pls. 1867.2

Abstract in Geol. Mag., 1867, **4**, 323–326.
Refers to next-following paper and to T. Atthey's remarks upon the same in Geol. Mag., 1867, **4**, 378–381.

—— On the mandible and mandibular teeth of cochliodonts [Cochliodontidæ] Geol. Mag., 1867, **4**, 59–63. 2 pls. 1867.3

—— Ueber Kiefer und Kieferzähne von Cochliodonten. Neues Jahrb. Mineral., 1867, 503–504. 1867.4

—— Description of a great part of a jaw with the teeth of *Strophodus medius* Owen [*Asteracanthus ornatissimus*] from the Oolite of Caen in Normandie. Geol. Mag., 1869, **6**, 193–196; 235–236. pl. 1869.1

—— Notes on two ichthyodorulites hitherto undescribed. Geol. Mag., 1869, **6**, 481–483. figs. 1869.2

Lepracanthus colei and *Hybodus complanatus*, n. sp.

—— Beschreibung eines Kiefers mit Zähnen des *Strophodus medius* Owen aus dem Oolith von Caen in der Normandie. Neues Jahrb. Mineral., 1870, 1035. 1870.1

Owens, *A. A.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 453. 1879.1

Owsjannikow, *Phillipp.* *See* **Ovsyannikov,** *F. V.*

Owston, *Alan.* An interesting Japanese shark. Japan Daily Advertiser, March 4, 1903. 1903.1

—— List of Japanese fishes. Yokohama, 1905. 1905.1

—— Deep-sea fisheries. Yokohama, 1907. 10 p. 8°. 1907.1

Oxner, *Mieczyslav.* Ueber die Kolbenzellen in der Epidermis der Fische; ihre Form, Verteilung, Entstehung und Bedeutung. Jena. Zeitschr. Naturw., 1905, **40**, 589–646. 5 pls. & fig. 1905.1

—— Expériences sur la faculté d'apprendre chez les poissons marins, *Coris julis* Gthr. C. R. Acad. Sci. Paris, 1912, **154**, 455–457. 1912.1

—— Expériences sur la mémoire et sa durée chez les poissons marins. C. R. Acad. Sci. Paris, 1912, **154**, 659–662. 1912.2

—— Expériences sur la mémoire et sa nature chez un poisson marin, *Serranus scriba* (Cuv.) C. R. Acad. Sci. Paris, 1912, **154**, 832–835. 1912.3

—— Nouvelles expériences sur la nature de la mémoire chez *Coris julis*,

exécutées d'après la méthode de la "substitution." C. R. Acad. Sci. Paris, 1912, **154**, 1186–1187; 1312–1314. 1912.4

—— Résultats des expériences sur la mémoire, sa durée et sa nature chez les poissons marins: *Coris julis* Gthr. et *Serranus scriba* Cuv. Bull. Instit. Océanogr. Monaco, 1912, no. 232. 26 p. 1912.5

Ozeretskovski, *N.* Observatio de *Salmone salare* oceani Septentrionalis. Nova Acta Acad. Sci. St. Pétersb., 1801, **12**, 337–343. 1801.1

—— Observation sur un poisson nommé improprement hareng. Mém. Acad. Sci. St. Pétersb., 1807–08, **2**, 376–381. pl. 1807.1

—— De piscatu Volgensi. Mém. Acad. Sci. St. Pétersb., 1813–14, **6**, 497–549. 1813.1

P

P., *Dr.* Ueber die Teleskop- und über die Hundfische. Deutsche Fischerei Zeitg., 1878, 1. Jahrg., 208. 1878.1

P., *M. P.* Protean ichthyology. Fish. Gazette, 1882, 188. 1882.1

P., *W.* The spinous shark (*Squalus spinosus* Blainv.) [taken off the mouth of the Tyne] Nat. Hist. Trans. Northumberland Durham, 1877, **5**, pt. 3, 342. 1877.1

Pl., —— Ein neuer Bacillus als Epidemieerreger beim Goldfisch (*Carassius auratus*) Allgem. Fischerei Zeitg., 1900, **25**, no. 20, 368. 1900.1

Pacini, *Filippo* [1812–1883] Sopra l'organo elettrico del siluro elettrico del Nilo, comparato a quello della torpedine e del gimnoto, e sull' apparecchio di Weber del siluro comparato a quello dei ciprini. Nuovi Ann. Sci. Nat., 1846, **6**, 41–61. 1846.1

—— Sulla struttura intima dell' organo elettrico del gimnoto e di altri pesci elettrici, sulle condizione elettromotrici di questi organi e loro comparazione a diverse pile elettrice. Firenze, 1852. 36 p. Abstract in Gaz. Med. Italiana, 1852, 305. 1852.1

—— Sur la structure intime de l'organe électrique de la torpille, du gymnote et d'autres poissons; sur les conditions électromotrices de leurs organes électriques, et leur comparaison respective avec la pile thermo-électrique et la pile voltaïque. Arch. Sci. Phys. Nat. Genève, 1853, **24**, 313–336. 1853.1

Packard (*junior*), *Alpheus Spring* [1839–1905] For biographical notice see Mead, A. D., in Pop. Sci. Monthly, 1905, **67**, 43–48.

—— The structure of the swimming bladder of the gar-pike Lepidosteus. Proc. Acad. Nat. Sci. Philad. (*Biol. Dept.*), 1859, **11**. 1859.1

—— Notes on fishes observed at Okak, Labrador, by Rev. Samuel Weiz. Proc. Boston Soc. Nat. Hist., 1866, **10**, 265–277. 1866.1

—— An account of a recent trip to Key West and the Tortugas, Florida. Bull. Essex Instit., 1870, **2**, 44. 1870.1

Refers to the destruction of fish by great cold on the Florida reefs, Dec. 1850 and Dec. 1868.

—— Mode of growth of the lower vertebrates. Amer. Naturalist, 1875, **9**, 632–658. 19 figs. 1875.1

Development of Amphioxus, sharks and teleosts.

—— Memoir of J. Wyman, 1814–1874 [With list of scientific papers and works] Boston, 1878. 8°. 1878.1

—— The breeding habits of the eel. Amer. Naturalist, 1879, **13**, 25–30; 125–126. 1879.1

—— Discovery of male eels. Forest & Stream, 1879, **12**, 386. — Chicago Field, 1879, **11**, 163; 195. 1879.2

—— Reproduction of the American eel (*Anguilla bostoniensis*) Zool. Anz., 1879, 2. Jahrg., 15–16. — Nature, 1879, **19**, 174. 1879.3

—— Zoology. 2. ed. New York, 1880. 719 p. illust. 8°. 1880.1

—— The cave fauna of North America, with remarks on the anatomy of the brain and origin of the blind species. Mem. Nat. Acad. Sci., 1889, **4**, 3–156. 27 pls. 1889.1

Fishes, p. 106–107. Bibliography, p. 144–149.

—— The Labrador coast, a journal of two summer cruises to that region. New York, 1891. 8°. 1891.1

Fishes, p. 397–405.

—— On the origin of the subterranean fauna of North America. Amer. Naturalist, 1894, **28**, 727–751. pl. 1894.1

Typhlogobius, p. 732. Bibliography, p. 748–751.

—— Lamarck the founder of evolution. His life and work, with translations of his writings on organic evolution. New York, 1901. xii, 451 p. 10 pls. 8°. 1901.1

Packard (*junior*), *Alpheus Spring*, & **Kingsley,** *J. S.* Discovery of male eels. Amer. Naturalist, 1879, **13**, 319–321. 1879.1

Packard, *Wales H.* The effect of carbohydrates on resistance to lack of oxygen [in Fundulus] Amer. Journ. Physiol., 1907, **18**, 164–180. 1907.1

Paeske, *Carl*, & **Fechner,** *Hans. See* **Fechner & Paeske.**

Paez, *Ramon.* Wild scenes in South America; or life in the llanos of Venezuela. London, 1863. 8°. 1863.1

Scenes at the fishery, p. 58–73.

Page, *F. R.* A concise history and description of Newfoundland, being a key to the chart of the island, just published. London, 1860. 66 p. 12°. 1860.1

Frequent references to fishing.

Page, *George Shepard.* An address on fish-culture in the United States and foreign countries. Amer. Sportsman, 1874, **5**, 119. 1874.1

—— Blue-backed trout of Maine. Forest & Stream, 1874, **3**, 224–228. 1874.2

—— Fish-culture abroad. Trans. Amer. Fisheries Soc. 1873 (1874), 17–22. 1874.3

—— Black bass planting. Results of their introduction into Maine waters. Trans. Amer. Fisheries Soc. 1880 (1881), 58–62. 1881.1

—— Black bass in Maine. Trans. Amer. Fisheries Soc. 1884 (1885), 57–60. 1885.1

Page, *William F.* Effect of sunlight upon shad eggs. Bull. U. S. Fish Comm. 1885, **5**, 308. 1885.1

—— Shrinkage of whitefish eggs during transportation. Bull. U. S. Fish Comm. 1886 (1887), **6**, 360. 1887.1

—— The most recent methods of hatching fish eggs. Bull. U. S. Fish Comm. 1888 (1890), **8**, 207–218. 7 pls. & 4 figs. 1890.1

—— Impregnating eggs of the rainbow trout. Trans. Amer. Fisheries Soc. 1892 (1893), 179–186. 1893.1

—— Plant yearlings where needed. Trans. Amer. Fisheries Soc. 1893 (1894), 71–73. 1894.1

—— The propagation of black bass in ponds. Bull. U. S. Fish Comm. 1893 (1894), **13**, 229–236. 1894.2

—— Sale of domesticated fish. Trans. Amer. Fisheries Soc. 1893 (1894), 159–161. 1894.3

—— Feeding and rearing of fishes, particularly trout, under domestication. Bull. U. S. Fish Comm. 1894 (1895), **14**, 289–314. 1895.1

Bibliography of publications by the U. S. Fish Commission, p. 312–314.

Pagenstecher, *Heinrich Alexander* [1825–1889] Ueber das Ei von *Atherina hepsetus.* Arch. Anat. Physiol. (Reichert), 1861, 631–634. pl. 1861.1

—— Ueber junge Fische in den Kiemen von *Unio pictorum.* Verh. Nat. Med. Heidelberg, 1869, **4**, 4–6. — Zeitschr. Gesamt. Naturw., **34**, 150–151. 1869.1

—— Allgemeine Zoologie. 4 parts. Berlin, 1875–81. illust. 8°. 1875.1

—— Die Fischerei an den Küsten von Neu-England. Deutsch. Landw. Presse, 1875, 2. Jahrg., 30; 38. 1875.2

—— Die Fischerei in den Vereinigten Staaten von Nordamerika. Deutsch. Landw. Presse, 1876, 3. Jahrg., 77–78; 85–86. 1876.1

Pagès, *Léon* [1814–1886] Bibliographie Japonaise, ou catalogue des ouvrages relatifs au Japon qui ont été publiés depuis le xv^{e} siècle jusqu'à nos jours. Paris, 1859. 68 p. 8°. 1859.1

A facsimile reprint of this work is appended to Wenckstern, Fr. von. A bibliography of the Japanese empire. Leiden, 1895.

Paige, *Charles L.* The comparative value of foods for rainbow trout and other salmonoids. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 795–798. 1910.1

—— A method of cultivating rainbow trout and other Salmonidæ. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 781–787. 1910.2

Paine, *Joseph.* Some questions in ichthyology. Forest & Stream, 1877, **9**, 380. 1877.1

Tape worms in the gudgeon, with remarks in a letter from Theodore N. Gill.

Paine, *Timothy,* **Young,** *William,* **Bangs,** *Edward,* & **Stearns,** *Samuel.* A topographical description of the town of Worcester. Coll. Mass. Hist. Soc. 1792, 1. ser. **1**, 113. 1792.1

Painter, *William Hunt.* Carboniferous fish. Sci. Gossip 1872 (1873), 176–177. figs. 1873.1

—— More about Carboniferous fish. Sci. Gossip, 1874, 253–254. figs. 1874.1

Pajeken, *Eugen E. A.* Fremdländische Kaltwasserfische. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 438–439. 7 figs. 1915.1

—— Neue Beobachtungen an Diamantbarschen [Enneacanthus] Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 193–194. 4 figs. 1915.2

Palacky, *Jan* [1830–1908] Einige Betrachtungen über die Fischfauna Nordamerikas. Sitzber. Böhm. Ges. Wiss., 1861, Juli-Decemb., 77. 1861.1

—— Ueber die geographische Verbreitung der Süsswasserfische. Sitzber. Böhm. Ges. Wiss. 1876 (1877), 121–122. 1877.1

—— Ueber die Tiefseefische des westlichen Mittelmeeres. Sitzber. Böhm. Ges. Wiss., 1887, 329–333. 1887.1

—— Ueber die Entstehung der Süsswasserfische. Verh. Zool.-Bot. Ges. Wien, 1891, **41**, 33–35. 1891.1

—— Die Verbreitung der Fische. Prague, 1891. x, 239 p. 8°. 1891.2

—— Ueber die Entstehung der nordamerikanischen Ichthys. Verh. Ges. Deutsch. Naturf., 1895, **56**, 135–137. 1895.1

—— Die Verbreitung der Fische. Zweite vermehrete Auflage. Prague, 1895. 237 p. 8°. 1895.2

—— Das neue Bild der afrikanischen Ichthys. Sitzber. Böhm. Ges. Wiss. 1906 (1907), no. 7. 4 p. 1907.1

Paladino, *Giovanni.* Sur la constitution morphologique du protoplasma des cellules nerveuses dans la moelle épinière. Arch. Ital. Biol., 1898, **29**, 60–64. 1898.1

—— Su alcuni punti controversi intima dei centri nervosi. Monit. Zool. Ital., 1901, **12**, 191–193. 1901.1

—— Ancora dei più intimi rapporti fra il nevroglio e le cellule e le fibre nervose [in lobi elettrici di Torpedo] Rendic. Accad. Sci., Napoli, 1909, 3 ser. **14**, 238–244. pl.—Arch. Ital. Biol., **51**, 206–212. pl. 1909.1

—— Alcune notevoli particolorità delle cellule nervose del midollo spinale dell' *Orthagoriscus mola.* Rendic. Accad. Sci., Napoli, 1913, 3. ser. **19**, 19–23. 1913.1

Palander, *Lars.* Oeconomisk beskrifning öfver Kulsiala församling i Tavastehus län (Tyrväntö kapell) Inaug. Dissert. Abo, 1767. 20 p. 4°. 1767.1

Pehr Adrian Gadd, *præses.*

Pallas, *Peter Simon* [1741–1811] [Description of *Sciænæ jaculatricis*] Appended to a letter from Dr. John Albert Schlosser. Phil. Trans. Roy. Soc. London, 1766, **56**, 187–188. pl. 1766.1

—— Spicilegia zoologica, quibus novæ imprimis et obscuræ animalium species iconibus, descriptionibus atque commentariis illustrantur. 2 vols. Berolini, 1767–80. 58 pls. 8°. 1767.1

Tomus i, fasc. vii (1769) Pisces. In this work 25 new species of fishes are described and figured. A German version in 10 volumes was published 1769–1778.

—— Reise durch verschiedene Provinzen des russischen Reiches. 3 vols. St. Petersburg, 1771–76. illust. 4°. 1771.1

—— Auszug aus einem Briefe . . . die Naturgeschichte und Verpflanzung des Sterlets [*Acipenser ruthenus* L.] betreffend. Beschäft. Berlin. Ges. Naturf. Freunde, 1776, **2**, 532–534. 1776.1

—— Piscium novæ species descriptio. Nova Acta Acad. Petropol., 1787, **1** (Hist.), 258. *Ibid.*, 1788 (Mém.), 347–360. 1787.1

—— Voyages en différentes provinces de l'empire de Russie, et dans l'Asie septentrionale. Traduit de l'allemand par Gauthier de la Peyronnie. 5 vols. Paris, 1788–93. pls. & maps. 4°. 1788.1

Fishes are described in vol. iv.

—— Labraces, novum genus piscium oceani orientalis. Mém. Acad. Sci. St. Pétersb., 1810, **2**, 382–398. 1810.1

Three new species of Labrax are described.

—— Zoographia Rosso-Asiatica, sistens omnium animalium in extenso Imperio Rossico et adjacentibus maribus observatorum recensionem, domicilia, mores et descriptiones anatomen atque icones plurimorum. 3 vols. Petropoli, 1811[–42] 4°. 1811.1

As indicated on the title-page, the "Zoographia Rosso-Asiatica" was not regularly published till 1831, but was printed in 1811, and was only detained by the loss of the copperplates. The letter-press was, however, to a slight extent, distributed before the regular publication of the edition, and a copy was possessed by Cuvier, who has given a summary of the third volume in the Histoire Naturelle des Poissons (vol. i, 200–201). Over a score of species are described of which specimens had been obtained from the Russian possessions in northwestern America.

For a supplement to this celebrated work, *see* Eversmann, E. F. Addenda ad Pallasii Zoographiam Rosso-Asiaticam in tres partes. Casani, 1835–42.

The same. 2. ed. 3 vols. & atlas. Petropoli, 1831. 4°.

Palma, *Giuseppi.* Sui pleuronettidei, *Bothus rhomboides* e *Bothus podas.* Bull. Accad. Aspiranti Natural., 1863, 22–23; 29. 1863.1

Palmén, *Johan Axel* [1845 —] Zoologiska samlingarna, årsberättelse. Notis. Sällsk. Fauna & Flora Fenn. Förh., 1874, **13** (n. s. **10**), 454. 1874.1

—— Arsberättelse afgifven af zool. intendenten till Societa pro Fauna et Flora Fennica 1874. Meddel. Soc. Fauna & Flora Fenn., 1876, **1**, 103–104. 1876.1

—— Arsberättelse afgifven af intendenten för de zoologiska samlingarna. Meddel. Soc. Fauna & Flora Fenn., 1881, **6**, 245–247. 1881.1

—— *Cobitis* [*Misgurnus*] *fossilis.* Meddel. Soc. Fauna & Flora Fenn., 1881, **6**, 235–236. 1881.2

—— *Cobitis* [*Misgurnus*] *fossilis* L. en nykomling till finska fiskfaunan. Meddel. Soc. Fauna & Flora Fenn., 1881, **7**, 148–151. 1881.3

—— De zoologiska samlingarnas tillväxt med för desamma nya arter från den 13 maj 1877 till samma dag 1881. Meddel. Soc. Fauna & Flora Fenn., 1881, **6**, 273–281. 1881.4

—— Luonnontieteellisia havaintoja. Helsingfors, 1884. 23 p. 1884.1

—— En röd varietet af *Perca fluviatilis.* Meddel. Soc. Fauna & Flora Fenn., 1886, **13**, 198. 1886.1

—— Lungfisken, *Protopterus annectens.* Meddel. Soc. Fauna & Flora Fenn., 1900, **24**, 66. 1900.1

—— Om en intressant hajart, *Chlamydoselachus anguineus* Garm. Meddel. Soc. Fauna & Flora Fenn., 1900, **24**, 25–26; 183. 1900.2

—— *Thynnus thynnus.* Meddel. Soc. Fauna & Flora Fenn., 1900, **25**, 53. 1900.3

—— Märkta ålar [Mit Marke versehene Aale] Tidskr. Jäg. Fiskeri, Helsingfors, 1904, **12**, 167. 1904.1

—— Festscrift Palmén, etc. Helsingfors, 1905–07. *See* Reuter, O. M., & others, 1905.1, *infra.*

—— Suomalaisten ankeriaiden vaelluksista [Ueber die Wanderungen der finländischen Aale] Luonnon Ystävä, 1905, **9**, 294–296. 1905.1

—— Om den finska ålens vandringar [Ueber die Wanderungen der finländischen Aale] Fiskeritidskr. Finl., 1906, **15**, 23–27. 1906.1

—— Lax och ål och deras vandringar [Der Lachs, der Aal und ihre Wanderungen] Helsingfors, 1910. 21 p. 1910.1

—— Alens utvandring från Ostersjön och dess vikar [Die Wanderung des Aales aus der Ostsee und aus ihren Buchten] Fennia, Helsingfors, 1911–12, **29**, no. 1, 17. 1911.1

Palmén, *Johan Axel,* & **Mela,** *Aukusti Johana. See* **Mela & Palmén.**

Palmén, *Johan Axel,* **Stenroos,** *K. E.,* **Levander,** *K. M.,* & **Westerlund,** *A. See* **Stenroos, Palmén** & others.

Palmer, *A.* Fish culture; brook trout. Amer. Sportsman, 1874, **5**, 41. 1874.1

—— Trout breeding; successful experiments. Amer. Sportsman, 1874, **4**, 42. 1874.2

—— Fish for farmers. Forest & Stream, 1876, **7**, 228. 1876.1

—— Salmon breeding in fresh water. Forest & Stream, 1878, **11**, 420. 1878.1

—— A question for trout breeders. Forest & Stream, 1879, **12**, 364. 1879.1

Palmer, *B. D.* Carp appear February 7, take the hook, and are excellent eating. Bull. U. S. Fish Comm. 1884, **4**, 124. 1884.1

Palmer, *George H.* The food fishes of the New England coast. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 88–103. 1873.1

Palmer Hackle, pseudonym for **Blakey,** *B.,* writer on angling.

Palmer, *Theodore Sherman* [1868 —] Licenses for hook and line fishing. Trans. Amer. Fisheries Soc. 1911 (1912), 91–98. 1912.1

Palmstedt, *Carl.* Några underrättelser om det lefvande exemplar af *Gymnotus electricus,* i London. Förh. Skand. Naturf., 1842, **3**, 487–492. — Isis (Oken), 1845, 428–431. 1842.1

Palmstruch, *J. W.* Svensk zoologi, författad af C. Quensel . . . med illuminerade figurer, tecknade af J. W. Palmstruch [and C. W. Venus] Första bandet (utgifven af J. W. Palmstruch med text författad af O. Swartz [and Heft 12 by J. W. Dalman] andra bandet) 2 vols. Stockholm, 1806–09. illust. 8°. 1809.1

The work was initiated by G. J. Billberg; the text to Heft 1, however, was edited by C. Quensel, and at his death the editorship passed to O. Swartz, who was responsible for Hefte 2–10, and possibly 11; Heft 12 was written by J. W. Dalman.

Panceri, *Paolo* [1833–1877] Notizie sopra il siluro elettrico. Ann. Univ. Med. Omodei, 1858, **165**, 489–501. 1858.1

—— Nota intorno ai pesci elettrici. Ann. Univ. Med. Omodei, 1859, **167**, 102–106. 1859.1

—— Sur la phosphorescence des animaux marins. Annales de Chimie, 1864, **1**, lx–lxi. 1864.1

—— Circa particolari appendici delle branchie della *Cephaloptera giorna* M. H. Rendic. Accad. Sci. Napoli, 1867, **6**, 298–302. 1867.1

—— Sulla fecondazione artifiziale e sulla entrata degli spermatozoi nelle uova del Branchiostoma [*Amphioxus lanceolatus*] Rendic. Accad. Sci. Napoli, 1867, **6**, 397–398. — Nuov. Cimento, 1868, **27**, 237–238. 1867.2

—— Intorno alla luce emanata dal grasso. Rendic. Accad. Sci. Napoli, 1871, **10**, 79–81. 1871.1

—— Etudes sur la phosphorescence des animaux marins. Ann. Sci. Nat. (*Zool.*), 1872, 5. sér. **16**, art. 8. pl. & 8 figs. 1872.1

—— Intorno all' albinismo del *Clarias anguillaris.* Rendic. Accad. Sci. Napoli, 1873, **12**, 110–114. 1873.1

—— Intorno alla speciale forma che presentano gli organi maschili del *Clarias anguillaris.* Ann. Mus. Civ. Storia Nat. Genova, 1874, **6**, 361–365. 1874.1

Panceri, *Paolo,* & **Bellotti,** *Cristofero. See* **Bellotti** & **Panceri.**

Panceri, *Paolo,* & **Sanctis,** *Leone de.* Anatomy (brain and præbranchial appendages) of Dicerobatis. Rendic. Accad. Pont. Napoli, 1869. 40 p. 2 pls. 1869.1

—— Sopra alcuni organi della *Cephaloptera giorna.* Atti Accad. Pontan. Napoli, 1869, **9**, 335–370. Also separate; Napoli, 1869. 2 pls. 4°. 1869.2

Panchaud, *E.* [Le contenu de l'estomac d'un cormorant, etc.] Bull. Soc. Zool. Genève, 1911, **1**, 292. 1911.1

L'estomac d'un cormoran de deux ans a contenu 16 *Alburnus lucidus* et une *Perca fluviatilis.*

Panchic, *Iosif* [1814–1888] Pisces Serbiæ [Text in Serbian] Belgrad, 1860. 8°. Abstract in Verh. Zool.-Bot. Ges. Wien, 1861, **11**, 6–7. 1860.1

Pancritius, *P.* Ueber Nahrung und Verdauung unserer Fische. Ber. Fisch. Ver. O. u. W. Preuss., 1885, no. 2. — Bull. U. S. Fish Comm. 1886 (1887), **6**, 145–148. 1887.1

Pander, *Christian Heinrich* [1794–1865] Monographie der fossilen Fische des silurischen Systems der russisch-baltischen Gouvernements. St. Petersburg, 1856. x, 91 p. 9 pls. 1856.1

Conodonts, Cephalaspids, Cœlolepids, and fragmentary remains of ostracoderms and ichthyodorulites are described and figured.

—— Ueber die Placodermen des devonischen Systems. St. Petersburg, 1857. 106 p. 8 pls. 1857.1

An extremely valuable monograph dealing with arthrodires and ostracoderms from the Devonian of Great Britain and Russia.

—— Die Ctenodipterinen des devonischen Systems. St. Petersburg, 1858. viii, 65 p. 4°. 1858.1

An important memoir describing the structure of Dipterus, Cheirodus, Holodus, Helodus and detached dental plates of Ptyctodus.

—— Ueber die Saurodipterinen, Dendrodipterinen, Glyptolepiden und Cheirolepiden des devonischen Systems. St. Petersburg, 1860. ix, 90 p. 17 pls. 1860.1

Pander, *H.* Der Zwergstichling. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 337–339. fig. 1912.1

Panella, *A.* Il nucleone in tre periodi della vita dell' *Anguilla vulgaris.* Atti Soc. Toscana Sci. Nat. Pisa, 1909, **18** (*Proc. Verb.*), 25–30. — Arch. Ital. Biol., **52**, 135–141. 1909.1

Panizza, *Bartolomeo* [1785–1867] Osservazioni zootomico-fisiologiche sulla lampreda di mare (*Petromyzon marinus*) Atti Sci. Ital., 1841, 369–373. — Isis (Oken), 1843, 413. 1843.1

—— Della lampreda marina. Mem. Istit. Lomb. Milano, 1845, **2**, 25–53. 1845.1

—— Sulla lampreda marina. Memoria con nota da Cav. C. F. Bellingeri. Giorn. Sci. Med. Torino, 1846, anno 9. 1846.1

Pannekoek, *J. J.* Geologische Aufnahme der Umgebung von Seelisberg am Vierwaldstättersee. Beitr. Geol. Karte Schweiz, 1905, n. s. **17**. 25 p. 8 figs. 1905.1

Pansch, *Adolf* [1841–1887] Ueber das Vorkommen eines Schwertfisches (*Xiphias gladius*) bei Büsum in der Nordsee. Mitth. Ver. Nördl. Elbe 1867 (1868), 8. Heft, 89. 1868.1

Panschin, *B. A.* Die peripheren Nerven des Hechtes. Anat. Anz., 1910, **35**, 443–467. 7 figs. 1910.1

—— Ueber das periphere Nervensystem der Knochenfische [Text in Russian] Prot. Obšč. Jest., Kiev 1909 (1910), 4. 1910.2

Pantanelli, *D.* Sul *Diodon scillæ* Agassiz (Guiscardi) Mem. Accad. Sci. Lett. Art. Modena, 1897, 3. ser. **1**, 91–94. 1897.1

—— Denti di Ptychodus nell' Appennino modenense. Proc. Verb. Soc. Toscana Sci. Nat., Pisa, 1904, **14**, 70–71. 1904.1

—— Sugli otoliti fossili. Proc. Verb. Soc. Toscana Sci. Nat., Pisa, 1904, **14**, 71–72. 1904.2

—— Ancora su i resti di Ptychodus nell' Appennino emiliano. Atti Soc. Nat. Modena, 1906, **7**, 36–37. 1906.1

—— Argille postplioceniche ad ittioliti dei dintorni di Taranto. Atti Soc. Toscana Sci. Nat. (*Proc. Verb.*), 1911, **20**, 42–47. 1911.1

Panum, *Peter Ludvig* [1820–1885] Beiträge zur Kenntniss der physiologische Bedeutung der angeborenen Missbildung. Arch. Path Anat. Berlin, 1878, **72**, 69–91; 165–197; 289–324. 1878.1

Panzer, *Th.* Ueber den charakteristischen Geruch des Seefischfleisches. Verh. Ges. Deutsch. Nat. Aerzte, 81. Vers., 1910, pt. 2, 79–81. 1910.1

Paolucci, *Carlo.* Sulla ittiofauna Adriatica e particolarmente sulla *Clupea papalina* Bp. Ancona, 1908. 1908.1

Paolucci, *Luigi* [1849—] Il gabinetto di storia naturale. Ancona, 1867. 1867.1

Pesci, p. 134.

—— Sopra una forma mostruosa della *Myliobates noctula* Dum. Atti. Soc. Ital. Sci. Nat., 1874, **17**, 60–63. figs. 1874.1

—— Catalogo sistematico delle collezioni di storia naturale del R. Istit. Tecnico di Ancona. Ancona, 1880. 1880.1

Pesci, p. 24.

—— Le pescagioni nella zona italiana del medio Adriatico. Ancona, 1901. 1901.1

—— Risultati delle indagini sul pesce novello dell' Adriatico. Ann. Agric. (Atti Comm. Pesca) Roma, 1910, no. 263, 241–251. 1910.1

Pap, *János.* Az arany ponty [*Carassius auratus*] Természet, 1871, **3**, pt. 12, 183–187. 1871.1

Pape, *Carl.* Beiträge zur Anatomie von *Saccobranchus fossilis* (Günther) Jena. Zeitschr. Nat., 1914, **52**, 445–520. pl. & 24 figs. 1914.1

Primitive und neu erworbene Merkmale.

Papillon, *Fernand,* & **Rabuteau,** *Antoine Pierre Athanase. See* **Rabuteau & Papillon.**

Pappe, *Carl Wilhelm Ludwig* [1802–1862] Synopsis of the edible fishes of the cape of Good Hope. Capetown, 1854. 34 p. 8°. 1854.1

Pappenheim, *Karl.* Bibliotheca marchica, historico-naturalis. Verzeichnis der auf die Mark Brandenburg bezüglichen naturkundlichen Schriften und Karten vom Jahre 1901. Helios, 1902, **19**, 69–79. 1902.1

Pappenheim, *Paul.* Altes und Neues von den Sägefischen. Aus d. Natur, Stuttgart, 1905, **1**, 397–402. 1905.1

—— Ein neuer "pseudo"-elektrischer Fisch aus Kamerum, *Mormyrus tapirus*, sp. n. Sitzber. Ges. Naturf. Freunde Berlin, 1905, 217–219. 1905.2

Pappenheim, *P.*

—— Ueber Augenverlust und Schädelverbildung bei einem Fisch. Sitzber. Ges. Naturf. Freunde Berlin, 1905, 7–8. 1905.3

—— Ueber die Acipenseriden-Gattung Scaphirhynchus. Sitzber. Ges. Naturf. Freunde Berlin, 1905, 5–7. 1905.4

—— Zur biologischen Bedeutung der Säge bei den sogenenannten Sägefischen (Pristiophorus M. u. H. und Pristis Lath.) Sitzber. Ges. Naturf. Freunde Berlin, 1905, 97–102. 1905.5

—— Eine alte Afrikanerfamilie [Mormyridæ] Natur. Zeitschr. Naturf. Stuttgart, 1906, **2**, 340–344. 1906.1

—— Neue und ungenügend bekannte elektrische Fische (Fam. Mormyridæ) aus den deutsch-afrikanischen Schutzgebieten. Sitzber. Ges. Naturf. Freunde Berlin, 1906, 260–264. 1906.2

—— Ein Beitrag zur Osteologie des Fischschädels: Die Mormyriden-Gattung Campylomormyrus Blkr. Zool. Anz., 1907, **32**, 137–139. 3 figs. 1907.1

—— Zur Systematik und Variationsstatistik der Mormyriden, hauptsächlich aus den deutsch-afrikanischen Schutzgebieten. Mitt. Zool. Mus. Berlin, 1907, **3**, pt. 3, 339–366. 3 pls. 1907.2

—— Ein zweiter Fall von Mopsköpfigkeit bei einem *Lumpenus lampretiformis* (Walb.) aus der Apenrader Föhrde. Sitzber. Ges. Naturf. Freunde Berlin, 1907, 349–350. 1907.3

—— Pisces (In Wissenschaftliche Ergebnisse der Expedition Filchner nach China und Tibet, 1903–05, vol. x, pt. 1, 107–124. Jena, 1908) 1908.1

—— Pisces (inkl. Cyclostomata) (In Die Süsswasserfauna Deutschlands; eine Exkursionsfauna, herausgegeben von Prof. Dr. Brauer, vol. i, 90–201. 76 figs. Jena, 1909) 1909.1

—— Pisces aquæ dulcis (In Schultze, Leonhard, Zoologische und anthropologische Ergebnisse einer Forschungsreise im westlichen und zentralen Süd-Afrika ausgeführt in den Jahren 1903–1905. Systematik und Tiergeographie, vol. iv, pt. 2, 271–278. 6 pls. Jena, 1910) 1910.1

—— Nachtrag zu M. Kreyenberg, eine neue Cobitinengattung aus China. Zool. Anz., 1911, **38**, 419. 1911.1

—— Neue antarktische Fische. Nach dem Material der deutschen Südpolar-Expedition 1901–1903. Sitzber. Ges. Naturf. Freunde Berlin, 1911, 382–383. 1911.2

—— Zoologische Ergebnisse der Expedition des Herrn G. Tessmann nach Süd-Kamerun und Spanisch-Guinea. Fische. Mitt. Zool. Mus. Berlin, 1911, **5**, 505–528. 6 figs. 1911.3

—— Die Fische der deutschen Südpolar-Expedition 1901–1903. I. Die Fische der Antarktis und Subantarktis. Deutsch. Südpol.-Exped., 1912, **13** (*Zool. Abth.* **5**), 161–182. 2 pls. & 10 figs. 1912.1

—— Die Fische der deutschen Südpolar-Expedition 1901–1903. II. Die Tiefseefische. Deutsch. Südpol.-Exped., 1914, **15** (*Zool. Abth.* **7**), 161–200. 2 pls. & 10 figs. 1914.1

Melanostomias, Gnathostomias, n. g., Eustomias, Neostomias, Leptocephalus, Neoceratias, n. g.

—— Fische; wissenschaftliche Ergebnisse. Deutsch. Zentral-Afrika Exped., 1907–1908. 1914, **5** (*Zool.* **3**), 225–259. 10 pls. 1914.2

Pappenheim, *Paul*, & **Boulenger**, *G. A.* Fische von der deutschen Zentral-Afrika Expedition, 1907–1908. Wiss. Ergebn. Deutsch. Zentr.-Afr.-Exped. Leipzig, 1914. 36 p. 10 pls. 8°. 1914.1

Pappenheim, *Paul*, & **Hilgendorf**, *Franz Martin*. *See* **Hilgendorf** & **Pappenheim**.

Pappenheim, *Paul*, & **Kreyenberg**, *M. See* **Kreyenberg** & **Pappenheim**.

Pappenheim, *Paul*, **Matschie**, *P.*, **Reichenow**, *A.*, & **Tornier**, *G. See* **Matschie, Reichenow** & others.

Pappenheim, *Samuel*, & **Vogt**, *Karl Christoph*. *See* **Vogt** & **Pappenheim**.

Paramore, *R. H.* The Hunterian lectures on the evolution of the pelvic floor in the non-mammalian vertebrates and pronograde mammals. Lancet, 1910, **178**, 1393–1399; 1459–1467. 19 figs. Abstract in Brit. Med. Journ., 1910, **2**, 392–393. 1910.1

Paratre, *R.* Poissons du bassin de la Loire. Châteauroux, 1893. 8°. 1893.1

—— Remarques sur la dissémination des poissons par les animaux aquatiques; introduction d'un vairon (*Phoxinus lævis*) dans un réservoir d'eau pluviale.

Mém. Soc. Zool. France, 1894, **7**, 177–184. 1894.1

—— La pêche au goiyonnier et ses effets destructeurs. Le Pêcheur, 1896, 2. sér. **1**, no. 155, 138–139. 1896.1

Parchappe, *Maximillian.* Notes anatomico-physiologiques sur la structure du cœur de l'esturgeon et de la raie. C. R. Acad. Sci. Paris, 1848, **27**, 24–27. — Notizen (Froriep) **8**, 65–68. Abstract in l'Institut, **16**, 198. 1848.1

Pardo y Puzo, *A.* Cartilla de pesca. Madrid, 1907. 223 p. figs. 4°. 1907.1

Parent, *H.* Deuxième note sur le terrain Wealdien du Bas-Boulonnais. Ann. Soc. Géol. Nord, 1903, **32**, 17–48. 1903.1

Remains of Hybodus, Strophodus, Ischyodus, Pycnodus and Lepidotus are mentioned.

Parish, *C.* Musical fish. Sci. Gossip 1870 (1871), 146–148. 1871.1

Parisi, *B.* Nuova cattura di *Selache maxima* Gunn. Natura, Riv. Sci. Nat. Milano, 1912, **3**, 221. 1912.1

Parize, —— Sur une maladie parasitaire du cyprin de la Chine (*Cyprinus auratus*) Bull. Soc. Sci. Finistère, 1883, **5**. 1883.1

Park, *Mungo* [1771–1806] Descriptions of eight new fishes from Sumatra. Trans. Linn. Soc. Londm, 1797, **3**, 33–38. pl. 1797.1

Parker, *George Howard* [1864 —] Note on the blood vessels of the heart in the sunfish (*Orthagoriscus mola* Linn.) Anat. Anz., 1900, **17**, 313–316. fig. 1900.1

—— The crossing of the optic nerves in teleosts. Biol. Bull. Woods Hole, 1901, **2**, 335–336. 1901.1

—— (*editor*) Mark anniversary volume. New York, 1903. xiii, 513 p. illust. 4°. 1903.1

For contents dealing with fishes *see* **Mark,** *E. L., supra.*

—— The optic chiasma in teleosts and its bearing on the asymmetry of the Heterosomata (flatfishes) Bull. Mus. Comp. Zool. Harv. Coll., 1903, **40**, 221–242. pl. 1903.2

—— The sense of hearing in fishes. Amer. Naturalist, 1903, **37**, 185–204. 2 figs. 1903.3

—— The function of the lateral line organs in fishes. Amer. Naturalist, 1904, **38**, 496–497. 1904.1

—— Hearing and allied senses in fishes. Bull. U. S. Fish Comm. 1902 (1904), **22**, 45–64. pl. 1904.2

—— Maldive cephalochordates, with the description of a new species from Florida. Bull. Mus. Comp. Zool. Harv. Coll., 1904, **46**, 39–52. 2 pls. 1904.3

—— The function of the lateral line organs in fishes. Bull. Bureau Fisheries 1904 (1905), **24**, 183–207. 1905.1

—— The stimulation of the integumentary nerves of fishes by light. Amer. Journ. Physiol., 1905, **14**, 413–420. 1905.2

—— The interrelation of sensory stimulations in Amphioxus. Science, 1907, n. s. **25**, 724–725. 1907.1

—— The origin of the lateral eyes of vertebrates. Amer. Naturalist, 1908, **42**, 601–609. 2 figs. 1908.1

—— The sense of taste in fishes. Science, 1908, n. s. **27**, 453. 1908.2

—— The sensory reactions of Amphioxus. Proc. Amer. Acad. Arts Sci., 1908, **43**, 415–455. 1908.3

—— Special description of the auditory organ and other soft parts [in *Rhadinichthys deani*, from the Waverly of Kentucky] (In Eastman, C. R. Devonian fishes of Iowa. Ann. Rept. Iowa Geol. Survey, 1908, **18**, 272) 1908.4

See also **Moodie,** *R. L.,* 1915.1, *supra.*

—— The integumentary nerves of fishes as photoreceptors and their significance for the origin of the vertebrate eyes. Amer. Journ. Physiol., 1909, **25**, 77–80. 1909.1

—— The receptiveness of the vertebrate skin for light and the origin of the vertebrate eye. Science, 1909, n. s. **29**, 432. 1909.2

—— The sense of hearing in the dogfish. Science, 1909, n. s. **29**, 428. 1909.3

—— The function of the ear in cyclostomes. Science, 1910, n. s. **31**, 470. 1910.1

—— Influence of the eyes, ears and other allied sense organs on the movements of the dogfish, *Mustelus canis* (Mitchill) Bull. Bureau Fisheries, 1910, **29**, 43–57. 1910.2

Parker, *G. H.*

—— Olfactory reactions in fishes. Journ. Exper. Zool., 1910, **8**, 535–542. 1910.3

—— Structure and functions of the ear of the squeteague. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 1211–1224. pl. 1910.4

—— The olfactory reactions of the common killifish, *Fundulus heteroclitus* (Linn.) Journ. Exper. Zool., 1911, **10**, 1–5. 1911.1

—— The olfactory sense of fishes. Amer. Journ. Physiol., 1911, **27**, xix. 1911.2

—— The relation of smell, taste and the common chemical sense in vertebrates. Journ. Acad. Nat. Sci. Philad., 1912, 2. ser. **15**, 219–234. 1912.1

—— Sound as a directing influence in the movements of fishes. Bull. Bureau Fisheries, 1912, **30**, 97–104. 1912.2

—— Effects of explosive sounds, such as those produced by motor boats and guns, upon fishes. Rept. Bureau Fisheries 1911 (1913), no. 752. 9 p. 1913.1

—— The directive influence of the sense of smell in the dogfish. Bull. Bureau Fisheries 1913 (1914), **33**, 61–68. 1914.1

—— The movements of the dog-fish as determined by olfactory stimulation. Science, 1914, n. s. **39**, 473. 1914.2
Food excitation olfactory.

Parker, *George Howard*, & **Davis,** *Frederica K.* The coronary vessels in the hearts of fishes. Science, 1899, n. s. **9**, 315. 1899.1

—— The blood vessels of the heart in Carcharias, Raja and Amia. Proc. Boston Soc. Nat. Hist., 1901, **29**, 163–178. 3 pls. 1901.1

Parker, *George Howard*, & **Sheldon,** *Ralph E.* The sense of smell in fishes. Bull. Bureau Fisheries 1912 (1913), **32**, 33–46. 1913.1

Parker, *H. G.* Land-locking the quinnat salmon. Experiment in Pyramid and Walker lakes. Chicago Field, 1878, **10**, 165. 1878.1

Parker, *J. B.*, **Williamson,** *E. B.*, & **Osburn,** *Raymond Carroll.* A descriptive list of the fishes of Big Jelloway creek and tributaries, Knox county, Ohio. 7. Ann. Rept. Ohio Acad. Sci., 1899, 18–32. 1899.1

Parker, *J. C.* Some experiments with the fry of whitefish. Trans. Amer. Fisheries Soc. 1888 (1889), 67–69. 1889.1

—— Some observations upon the grayling. Trans. Amer. Fisheries Soc. 1888 (1889), 83–87. 1889.2

—— Man as a controlling factor in aquatic life. Trans. Amer. Fisheries Soc. 1901 (1902), 48–55. 1902.1

Parker, *Thomas Jeffery* [1850–1897] On the venous system of the skate, *Raja nasuta*. Trans. New Zealand Inst. 1880 (1881), **13**, 413–418. pl. 1881.1

—— Notes on the anatomy and embryology of *Scymnus lichia*. Trans. New Zealand Inst., 1882, **15**, 222–234. 2 pls. 1882.1

—— On a new method of preserving cartilaginous skeletons and other soft animal structures. Trans. New Zealand Inst., 1882, **14**, 258–264. 1882.2

—— On the connection of the air-bladders and the auditory organs in the red cod (*Lotella bacchus*) Trans. New Zealand Inst., 1882, **15**, 234–236. pl. 1882.3

—— On the gravid uterus of *Mustelus antarcticus*. Trans. Proc. New Zealand Inst., 1882, **15**, 219–222. pl. 1882.4

—— Some embryos of the elephant fish (*Callorhynchus antarcticus*) New Zealand Journ. Sci., 1882, **1**, 479–480. — Notes Otago Univ. Mus., 1883, **29**, 46. 1882.5

—— A course of instruction in zootomy. Vertebrata. London, 1884. 397 p. 74 figs. 1884.1

—— On a specimen of the great ribbon fish (*Regalecus argenteus*, n. sp.) lately obtained at Moeraki, Otago. Trans. New Zealand Inst., 1884, **16**, 284–296. 2 pls. 1884.2

—— On a Torpedo (*T. fusca*, n. sp.) recently caught near Dunedin. Trans. New Zealand Inst., 1884, **16**, 281–284. pl. 1884.3

—— On the occurrence of the spinous shark (*Echinorhinus spinosus*) in New Zealand waters. Trans. New Zealand Inst., 1884, **16**, 280–281. 1884.4

—— On the intestinal spiral valve in the genus Raia. Trans. Zool. Soc. London, 1885, **11**, pt. 2, 49–61. 2 pls. 1885.1

—— On the blood-vessels of *Mustelus antarcticus*, etc. Phil. Trans. Roy. Soc. London, 1886, **177**, 686–732. 4 pls. Abstract in Proc. Roy. Soc. London, 1887, **42**, 437–438. 1886.1

—— On the claspers of Callorhynchus. Nature, 1886, **39**, 635. 1886.2

—— Studies in New Zealand ichthyology. I. On the skeleton of *Regalecus argenteus*. Trans. Zool. Soc. London, 1886, **12**, 5–33. 5 pls. 1886.3

—— Notes on *Carcharodon rondeletii*. Proc. Zool. Soc. London, 1887, 27–40. 5 pls. 1887.1

—— On a specimen of Regalecus recently stranded in Otago harbour. Trans. Proc. New Zealand Inst., 1887, **20**, 20–29. pl. 1887.2

—— On the nomenclature of the brain and its cavities. Notes Otago Univ. Mus., 1889, **35**, 208–210. 2 figs. 1889.1

—— Note on the fœtal membranes of *Mustelus antarcticus*. Trans. New Zealand Inst., 1890, **22**, 331–333. pl. 1890.1

—— On the presence of a sternum in *Notidanus indicus*. Nature, 1890, **43**, 142. fig. 1890.2

—— On the origin of the sternum. Trans. New Zealand Inst., 1891, **23**, 119–123. pl. 1891.1

—— Preliminary note on the vesiculæ seminales and the spermatophores of *Callorhynchus antarcticus*. Proc. Austr. Assoc. Adv. Sci., 1892, **4**, 401–403. pl. 1892.1

—— Note on the occurrence of Lophotes in New Zealand waters. Trans. New Zealand Inst., 1894, **26**, 223. 1894.1

—— Account of the leading structural peculiarities of *Orthagoriscus mola*. Trans. Proc. New Zealand Inst., 1897, **29**, 627. 1897.1

Parker, *Thomas Jeffery,* & **Haswell,** *William Aitchsen.* A text book of zoology. 2 vols. London, 1897. 1172 illust. map. 8°. 1897.1

Vol. ii contains a useful review of the class Pisces.

Parker, *William A.* Remains of fossil fishes found near Rochdale. Trans. Rochdale Liter. Scient. Soc., 1904, **8**, 24–32. 3 figs. 1904.1

—— Fossil Arthropoda and Pisces from Middle Coal Measures of Sparth, Rochdale. Trans. Rochdale Liter. Scient. Soc., 1908, **9**, 64–76. 1908.1

Parker, *William Kitchen* [1823–1890] On the shoulder-girdle of the fish-class (In his Monograph on the structure and development of the shoulder-girdle and sternum in the Vertebrata, p. 6–57. 2 pls. & 6 figs. London, 1868) 1868.1

—— On the form and use of the facial arches. Monthly Micr. Journ., 1871, **6**, 211–213. pls. & fig. 1871.1

—— On the structure of the eel's skull. Nature, 1871, **4**, 146–148. fig. 1871.2

—— On the structure and development of the skull of the salmon, *Salmo salar* Linn. Proc. Roy. Soc. London 1871–72 (1872), **20**, 360–362. — Phil. Trans. Roy. Soc. London, 1873, **163**, pt. 1, 95–145. — Ann. Mag. Nat. Hist., 1872, 4. ser. **10**, 222–224. — Journ. Zool. (Gervais), 1874, **3**, 341–351. 1872.1

—— On the development of the face in the sturgeon [*Acipenser sturio*] Monthly Micr. Journ., 1873, **9**, 254–257. 1873.1

—— On the evolution of the Vertebrata. Nature, 1879, **20**, 30–32; 61–64; 81–83. 4 figs. 1879.1

Fishes, p. 31.

—— On the structure and development of the skull in sharks and skates. Trans. Zool. Soc. London, 1879, **10**, 189–234. 9 pls. Abstract in Proc. Zool. Soc. London, 1876, 699–700. 1879.2

—— On the structure and development of the skull in sturgeons [*Acipenser ruthenus* and *A. sturio*] Proc. Roy. Soc. London, 1881, **32**, 142–145. — Phil. Trans. Roy. Soc. London, 1883, **173**, 139–185. 7 pls. 1881.1

—— On the development of the skull in *Lepidosteus osseus*. Proc. Roy. Soc. London, 1882, **33**, 107–112. — Phil. Trans. Roy. Soc. London, 1883, **173**, 443–492. 9 pls. 1882.1

—— On the skeleton of the marsipobranch fishes. Part I. The myxinoids

Parker, *W. K.*
(Myxine and Bdellostoma) Part II. The lamprey. Phil. Trans. Roy. Soc. London, 1884, **174**, 373–409; 411–457. Abstract in Proc. Roy. Soc. London, **34**, 439–443; 447–449. — Nature, **27**, 330–331. 1884.1

Parker, *William Kitchen*, & **Balfour,** *Francis Maitland.* *See* **Balfour & Parker.**

Parker, *William Kitchen*, & **Bettany,** *G. T.* Morphology of the skull. London, 1877. 8°. 1877.1

On the skulls of fishes: the skulls of the dog-fish and the skate, p. 14–43.
The skull of the salmon, p. 43–82.
Appendix on the skulls of different kinds of fishes, p. 83–90.

Parker, *William Newton.* On the kidneys of Teleostei. Rept. Brit. Assoc. Adv. Sci., 52. meet., 1882, 577. 1882.1

—— On the poison organs of Trachinus. Proc. Zool. Soc. London, 1888, 359–367. pl. & fig. 1888.1

—— Zur Anatomie und Physiologie von *Protopterus annectens.* Ber. Naturf. Ges. Freiburg, 1888, **4**, Heft 3. 26 p. 1888.2

—— On the occasional persistence of the left posterior cardinal vein in the frog, with remarks on the homologies of the veins in the Dipnoi. Proc. Zool. Soc. London, 1889, 145–151. 2 figs. 1889.1

—— Preliminary note on the anatomy and physiology of *Protopterus annectens.* Nature, 1889, **39**, 19–21. 1889.2

—— On the anatomy and physiology of *Protopterus annectens.* Trans. Roy. Irish Acad. Dublin, 1892, **30**, 109–230. 11 pls. Abstract in Proc. Roy. Soc. London, **49**, 549–554. 1892.1

—— Elements of the comparative anatomy of vertebrates. Adapted from the German of Dr. Robert Wiedersheim. 2. ed. London & New York, 1897. xvi, 488 p. 333 figs. 8°. 1897.1

Parker, *William Newton*, & **Burlend,** *T. H.* On the efferent ducts of the testis in *Chimæra monstrosa.* Anat. Anz., 1909, **34**, 331–336. 4 figs. 1909.1

Parlby, —— Notice of the capture of *Orthagoriscus mola* off the Chesil bank, Dorsetshire. Proc. Zool. Soc. London, 1849, **17**, 6–7. — Ann. Mag. Nat. Hist., 2 ser. **5**, 53. 1849.1

Parmentier, *Jean.* Observations concernant les effets prétendus de l'odeur des fleurs d'aubépine sur certains poissons de mer. Journ. de Physique, [1803] **9**, 113. 1803.1

Parmigiani, *L.*, & **Canestrini,** *R.*, *See* **Canestrini & Parmigiani.**

Parnell, *Richard* [— 1882] On the natural and economical history of the fishes, marine, fluviatile and lacustrine, of the river district of the Firth of Forth. Mem. Wern. Nat. Hist. Soc. Edinburgh, 1831–37, **7**, 161–460; 515–520. 27 pls. Also separate; Edinburgh, 1838. 28 pls. 8°. 1831.1

—— Notice regarding a new British species of Coregonus [*C. lacepedii* and *C. microcephalus*] Proc. Roy. Soc. Edinburgh, 1832–44, **1**, 194–195. pl. 1832.1

—— Observations on some new species of British fishes (*Gobius unipunctatus* and *G. albus*) Proc. Roy. Soc. Edinburgh, 1832–44, **1**, 150–153. 1832.2

—— Observations on a new species of British gurnard, and on a species of sole new to science. Proc. Roy. Soc. Edinburgh, 1832–44, **1**, 157–158. 1832.3

—— On the occurrence of the *Clupea alba* and *Raniceps trifurcatus* in the Firth of Forth. Proc. Roy. Soc. Edinburgh, 1832–44, **1**, 141–142. — Mag. Zool. Bot. (Jardine), **1**, 104. 1832.4

—— Sur quelques poissons rares et nouveaux du Firth de Forth. L'Institut, 1835, **3**, no. 125, 315–316. 1835.1

—— Contributions to British ichthyology (*Trigla lucerna, Monochirus minutus*) Mag. Zool. Bot. (Jardine), 1837, **1**, 526–529. 1837.1

—— Contributions to the ichthyology of the Firth of Forth. I. The white-bait. The sprat. The herring. II. The tad-pole fish. Mag. Zool. Bot. (Jardine), 1837, **1**, 50–57; 344–347; 526. 1837.2

—— *Monochirus minutus*, n. sp. L'Institut, 1837, **5**, no. 217, 222. 1837.3

—— On *Raia intermedia.* Proc. Roy. Soc. Edinburgh, 1837, 166. — Trans. Roy. Soc. Edinburgh, 1840, **14**, 429. 1837.4

—— *Trigla lucerna* Brunn. sur les côtes de la Grande Bretagne. L'Institut, 1837, **5**, no. 217 222. 1837.5

—— The natural history of the fishes of the river Forth, in Scotland. Edinburgh, 1838. 8°. 1838.1

—— Observations on the Coregoni of Loch Lomond. Ann. Mag. Nat. Hist., 1838, **1**, 161–165. — Isis (Oken), 1844, 576–578. 1838.2

—— Account of a new species of British bream, and of an undescribed species of skate: to which is added a list of the fishes of the Firth of Forth and its tributary streams, with observations. Trans. Roy. Soc. Edinburgh, 1839, **14**, 146–157. 3 pls. 1839.1

—— An account of three new species of British fishes, with some remarks on twenty others new to the coast of Scotland. Trans. Roy. Soc. Edinburgh, 1839, **14**, 137–145. 2 pls. 1839.2

—— On a new species of British fish (*Motella cimbria*) Ann. Mag. Nat. Hist., 1839, **2**, 39–42. — Isis (Oken), 1844, 658–659. 1839.3

—— On some new and rare British fishes (*Motella cimbria, Pagellus acarine, Raia chagrinea, R. intermedia* and *Clupea alba*) Rept. Brit. Assoc. Adv. Sci., 9. meet., 1839, pt. 2, 109–110. — Rev. Zool., 1839, 123. 1839.4

Parona, *Corrado.* Intorno ad un individuo di *Alopecias vulpes*, pescato nel mare Sardo. Atti Soc. Nat. Modena, 1883, 3. ser. **1**, 6 p. 1883.1

—— La pesca marittima in Liguria. Atti Soc. Ligust. Sci. Nat. Genova, 1898, **9**, 327–393. — Boll. Mus. Zool. Anat. Comp. Genova, no. 66. 69 p. — Giorn. Ital. Pesca Agricult., **2**, 261–271; 295–304; 336–341; 360–366. 1898.1

—— La pesca con le paranze e l'istituzione di zone d'esperimento sugli effeti della medesima. Boll. Mus. Zool. Anat. Comp. Genova, 1899, **4**, no. 88. 13 p. 1899.1

—— La *Selache maxima* nei mari italiani. Revist. Mens. Pesca Milano, 1908, **10**, 263–267. *Ibid.*, **11**, 64. 1908.1

—— Esistono gli Ostracionidi nel Mediterraneo? A proposito del rinvenimento di un *Ostracion triqueter* Lin. nelle acque del porto di Genova. Atti Soc. Ligust. Sci. Nàt. Genova, 1909, **20**, 49–57. 1909.1

—— Intorno al programma di ricerche sul tonno proposto al comitato talasssografico italiano. Considerazioni. Revist. Mens. Pesca, Pavia, 1912, **7**, 154–159. 1912.1

Parona, *Corrado,* & **Mazza,** *Felice.* Sulla castrazione temporanea delle aterine dovuta ad elmintiasi. Boll. Mus. Zool. Anat. Comp. Genova, 1900, **4**, no. 97. 7 p. pl. 1900.1

Cagionata dall' azione meccanica di compressione dall' esterno sull' organo riproduttore e sui relativi vasi sanguigni.

Parona, *Corroda,* & **Perugia,** *Alberto.* Di alcuni Trematodi ectoparassiti di pesci marini; nota preventiva. Ann. Mus. Civ. Storia Nat. Genova, 1889, 2. ser. **7**, 740–747. 5 figs. 1889.1

—— Di alcuni Trematodi ectoparassiti di pesci Adriatici; nota. Ann. Mus. Civ. Storia Nat. Genova, 1890, 2. ser. **9**, 16–32. 2 pls. 1890.1

—— Note sopra Trematodi ectoparassiti [di pesci del golfo di Genova] Ann. Mus. Civ. Storia Nat. Genova, 1892, 2. ser. **12**, 86–102. 2 pls. 1892.1

Parra, *Don Antonio.* Descripción de diferentes piezas de historia natural, las más del reino maritimo, representadas en setenta y cinco laminas. Havana, 1787. 1787.1

Fishes occupy 66 plates. "C'est un des ouvrages les plus utiles à la connaissance des poissons du golfe du Mexique, non tant à cause du texte, qu'à cause des figures fort exactes où ils sont représentés." — Cuvier et Valenciennes.

Parser, *M.* Etude sur l'état actuel des pêches dans le royaume des Pays-Bas, et spécialement de la pêche du hareng. La Haye, 1868. 31 p. 8°. 1868.1

Parsons, *C.* Capture of the sword-fish (*Xiphias gladius*) on the Essex coast. Zoologist, 1862, **20**, 8289. 1862.1

Parsons, *Harry de B.* The displacements and the area-curves of fish. Trans. Amer. Soc. Mechanical Engineers, 17. meet., 1888, 1–17. 19 figs. 1888.1

Parsons, *James* [1705–1770] An account of some fossil fruits and other bodies [viz. teeth and palates of fishes and other animals] found in the island of Sheppy. Phil. Trans. Roy. Soc. 1757 (1758), **50**, pt. 1, 396. 2 pls. 1758.1

Partloch, —— Notes on Rathke's Beiträge zur Entwickelung der Haifischen und Rochen. Neuste Naturf. Ges. Danzig, 1845, **15**, 261–262; 345–346. 1845.1

Parville, *Henri de.* La mémoire des poissons. La Nature, 1897, **25**, pt. 2, 294–327. 1897.1

—— La formation des perles. La Nature, 1899, **27**, pt. 2, 163–166. 4 figs. 1899.1

M. margaritifera, commensalisme du Fierasfer.

Pasco, *I. D.* A call for carp from Nevada. Bull. U. S. Fish Comm. 1881 (1882), **1**, 29–30. 1882.1

Pascoe, *E. H.* Corrective note on the fossil described under the provisional name "Twingonia," from the Pegu beds (Miocene) of Burma. Rec. Geol. Surv. India, 1909, **38**, 187. 1909.1

Identical with some fish otoliths.

Pascoe, *Francis Polkinghorne* [1813–1893] Zoological classification; a handy book of reference, with tables of the animal kingdom, their characters and lists of the families and principal genera. London, 1877. iv, 204 p. 12°. 1877.1

Class I. Pisces, p. 130–138.

—— Long-nosed ray [*Raia rostrata*] in the Ouse. Zoologist, 1883, 3. ser. **7**, 506. 1883.1

Paske, *C. T.*, & **Aflalo,** *F. G.* The sea and the rod; an exhaustive account of the habitat and peculiarities of the chief species of British sea-fish, etc. London, 1892. 224 p. 12°. 1892.1

Pasquale, *Maria.* Revisione dei selaciani fossili dell' Italia meridionale. Atti Accad. Sci. Napoli, 1903, 2. ser. **12**, no. 2, 1–32. pl. 1903.1

Review by C. R. Eastman in Science, n. s. **19**, 396.

—— Su di un Palæorhynchus dell' arenaria eocenica di Ponte Nuovo presso Barberino di Mugello (prov. di Firenze) Atti Accad. Sci. Napoli, 1904, 2. ser. **12**, no. 8, 1–6. pl. 1904.1

—— Avanzi di *Diodon vetus* nel Miocene inferiore del promontorio di S. Elia presso Cagliori in Sardegna. Rendic. Accad. Sci. Napoli, 1905, 3. ser. **11**, 71–79. 3 figs. 1905.1

—— Revisione dei selaciani fossili dell' Italia meridionale. Rendic. Accad. Sci. Napoli, 1905, **44**, no. 2, 1–32. pl. 1905.2

Passzlavsky, *József.* Az Amphioxus — nak rakona van [*Epigonichthys cultellus*] Természet. Közl., 1877, **9**, 118. 1877.1

Paterson, *William* [1755–1810] An account of a new electrical fish; in a letter from Lieutenant William Paterson to Sir Joseph Banks, Bart. P. R. S. Phil. Trans. Roy. Soc. London, 1786, **76**, 382–383. 1786.1

Patience, *Alexander.* On the occurrence of *Gobius orca* Collett within the Clyde sea area. Trans. Nat. Hist. Soc. Glasgow, 1908, n. s. **8**, 74–76. 1908.1

Paton, *Diarmid Noël.* The physiology of the salmon in fresh water. Journ. Physiol., 1897, **22**, 323–356. 1897.1

—— Report of investigations on the life-history of the salmon in fresh water. Report to the Scottish Fishery Board, presented to Parliament by command of Her Majesty. 18. Ann. Rept. Fishery Board Scotland, 1898, 766 p. 4 pls. Also separate; Edinburgh, 1898. 8°. 1898.1

—— Observations on the movements of the pollutions of the Tyne estuary during the summer of 1901. Journ. Hygiene, 1902, **2**, 141. 1902.1

—— On the proposed international scheme of North sea fishery investigations. Edinburgh, 1902. 1902.2

—— October salmon in the sea. Proc. Roy. Soc. Edinburgh, 1903, **24**, 486–495. 2 pls. 1903.1

—— Observations on the amount of dissolved oxygen in water required by young Salmonidæ. Proc. Roy. Soc. Edinburgh, 1904, **24**, 145–150. 1904.1

—— Report on a male kelt kept for a year in fresh water and found to be again ripe for spawning. 27. Ann. Rept. Fishery Board Scotland, 1908, pt. 2, 44. 1908.1

Paton, *Diarmid Noël,* & **Newbigin,** *M. I.* Further investigations on the life-history of the salmon in fresh water. Proc. Roy. Soc. Edinburgh, 1902, **23**, 44–54. 1902.1

Paton, *Diarmid Noël,* & others. Report of investigations on the life history of the salmon. Abstract in Journ. Physiol., 1898, **24**, 63. 1898.1

Paton, *Stewart.* The reactions of the vertebrate embryo to stimulation and the associated changes in the nervous system [First paper] Mitth. Zool. Stat. Neapel, 1908, **18**, 535–581. 3 pls. & fig. [Second paper] Journ. Comp. Neurol., 1911, **21**, 345–370. 2 pls. & 22 figs. 1908.1

Patten, *William* [1861 —] On the origin of vertebrates from arachnids. Quart. Journ. Micr. Sci., 1890, **31**, 317–378. 2 pls. & 18 figs. 1890.1

—— A basis for a theory of color vision. Amer. Naturalist, 1898, **32**, no. 383, 833–857. 1898.1

—— Gaskell's theory of the origin of Vertebrata from crustacean ancestors. Amer. Naturalist, 1899, **33**, 360–369. 6 figs. 1899.1

—— On the structure and classification of the Tremataspidæ. Mém. Acad. Imp. Sci. St. Pétersb., 1901, 8. sér. **13**, 1–33. 2 pls. Abstract in Amer. Naturalist, 1902, **36**, 379–393. 3 figs. 1901.1

Review by C. R. Eastman in Amer. Naturalist, **36**, 505–507. — Science, n. s. **19**, 397.

—— On the origin of vertebrates, with special reference to the structure of the ostracoderms. Verh. Intern. Zool. Congr. Berlin, 1902, 180–192. 6 figs. 1902.1

—— On the appendages of Trematespis. Amer. Naturalist, 1903, **37**, 223–242. 9 figs. 1903.1

Remarks by C. R. Eastman. *Ibid.*, p. 572–577. fig.

—— On the structure of the Pteraspidæ and Cephalaspidæ. Amer. Naturalist, 1903, **37**, 827–845. pls. & 12 figs. 1903.2

—— The structure of the ostracoderms. Science, 1903, n. s. **17**, no. 430, 488–489. 1903.3

—— New facts concerning Bothriolepis. Biol. Bull. Woods Hole, 1904, **7**, 113–124. 6 figs. 1904.1

—— The structure of Bothriolepis, with exhibition of specimens of Devonian fishes of Canada. Science, 1905, n. s. **21**, no. 532, 385–386. 1905.1

—— Investigations relating to the origin of vertebrates. 4. Year Book Carnegie Inst., Washington, 1906, 283–284. 1906.1

—— The evolution of the vertebrates and their kin. Philadelphia, 1912. 486 p. 309 figs. 8°. 1912.1

Reviews by W. E. Ritter in Amer. Naturalist, 1912, **46**, 623–632, and J. P. McMurrich in Science, 1912, n. s. **36**, 120–122.

Patterson, *Arthur H.* Notes on some rare sea-fishes found in the neighborhood of Great Yarmouth. Trans. Nat. Soc. Norwich, 1891, **5**, 227–230. 1891.1

—— Bull-dog variety of the sapphirine gurnard (*Trigla hirundo*) at Great Yarmouth. Zoologist, 1897, 4. ser. **1**, 239–240; 275–276. fig. 1897.1

—— The marine and fresh-water fishes of Great Yarmouth and its neighbouring coasts, rivers, and broads. Zoologist, 1897, 4. ser. **1**, 539–567. Notes, p. 339–340. *Ibid.*, **2**, 219–220. 1897.2

—— Natural history notes from Yarmouth. Trans. Norfolk Norwich Nat. Soc., 1897, **6**, 291–295; 405–408; 484 489. *Ibid.*, 1904, **7**, 63–71; 177–184; 395–400; 566–571; 726–730. 1897.3

—— Occurrence of the cuckoo ray at Great Yarmouth. Zoologist, 1897, 4. ser. **1**, 235–236. 1897.4

—— Malformed codfish. Zoologist, 1898, 4. ser. **2**, 130. figs. 1898.1

—— Notes from Great Yarmouth. Zoologist, 1899, 4. ser. **3**, 272–273. 1899.1

Observations on teleosts.

—— Megrim and some other fishes at Yarmouth. Zoologist, 1903, 4. ser. **7**, 354. 1903.1

—— Some fish-notes from Great Yarmouth for 1904–05. Zoologist, 1904, 4. ser. **8**, 441–444. pl. *Ibid.*, 1905, **9**, 441–446. 1904.1

—— Anchovy at Yarmouth. Zoologist, 1906, 4. ser. **10**, 435. 1906.1

—— Flying-fish reported from Yarmouth. Zoologist, 1906, 4. ser. **10**, 77. 1906.2

—— Rare fish at Yarmouth. Zoologist, 1906, 4. ser. **10**, 354–355. 1906.3

Scomber thunnia Cuv.

—— Some fish notes from Great Yarmouth for 1906–1911. Zoologist, 1906, 4. ser. **10**, 453–458. fig. *Ibid.*, 1907, **11**, 460–461. 3 figs. *Ibid.*, 1908, **12**, 441–449. 3 figs. *Ibid.*, 1910, **14**, 63–68; 451–461. 3 figs. *Ibid.*, 1911, **15**, 441–449. 1906.4

—— Fauna and flora of Norfolk. Additions to part iv, fishes. Trans. Norfolk Norwich Nat. Soc. 1904–09 (1909), **8**, 844–847. 1909.1

—— Natural history notes from Yarmouth. Trans. Norfolk Norwich Nat. Soc. 1904–09 (1909), **8**, 111–116; 315–322; 460–469; 604–615; 755–762. 1909.2

Patterson, *A. H.*
—— Rough notes on the fish and fisheries of East Suffolk. Zoologist, 1909, 4. ser. 361–392; 414–421; 447–462. pl. & map. 1909.3

—— Some odd notes on Yarmouth fishes. Zoologist, 1911, 4. ser. **15**, 219–225. 1911.1

—— Supplementary fish notes from Yarmouth. Zoologist, 1911, 4. ser. **15**, 11–13. *Ibid.*, 1912, **16**, 29–32. fig. 1911.2

—— Fauna and flora of Norfolk. Additions to part iv, fishes (seventh list) Trans. Norfolk and Norwich Nat. Soc., 1914, **9**, 815–821. 1914.1

—— Miscellaneous notes from Great Yarmouth (1913–14) Zoologist, 1914, 4. ser. **18**, 375–392. 1914.2

—— Some fish notes from Great Yarmouth and the neighbourhood for 1913. Zoologist, 1914, 4. ser. **18**, 1–20. 2 figs. 1914.3

Patterson, *J. Hume.* On the cause of salmon disease. Glasgow, 1903. 1903.1

Patterson, *R. Centriscus scolopax* in Irish waters. Irish Naturalist, 1906, **15**, 191. 1906.1

Patterson, *R.*, **Garrett,** *J. R.*, & **Dickie,** *G.* (*editors*) *See* **Thompson,** *W.* The natural history of Ireland. London, 1856. vol. iv. illust. 8°. 1856.1

Patterson, *Robert Lloyd.* The birds, fishes and cetacea commonly frequenting Belfast Lough. London & Belfast, 1880. 267 p. 8°. 1880.1

—— Fish and fishing in Belfast Lough. Proc. Belfast Soc., 1880, 234–266. 1880.2

Pattison, *G. J.* Fish poisoning. N. S. Wales Med. Gaz., 1872, **2**, 145. 1872.1

—— Toadfish. N. S. Wales Med. Gaz., 1872, **2**, 138–140. 1872.2

Pattison, *Holmes A.* Presence of shad in the rivers tributary to the gulf of Mexico. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 394–395. 1874.1

Paul, —— Ueber Fischerei und Walfang bei Island. Ber. Fischerei Ver. Ostpreussen, Königsberg, 1902–03, 14–22. 1902.1

Paul, *D. M.* On the pelvic fins in the postlarval and young stages of *Onus mustela* (the five-bearded rockling) Ann. Mag. Nat. Hist., 1902, 7. ser. **10**, 132–137. pl. 1902.2

Pauletič, —— Pescicoltura. Atti & Mem. Soc. Agrar. Gorizia, 1875, **14**, 279–283. 1875.1

Paulicki, *A.*, & **Hilgendorf,** *Franz Martin. See* **Hilgendorf** & **Paulicki.**

Paulin, *George L.* Statistics and notes as to Tweed salmon fishings. Hist. Berwickshire Nat. Club 1873–75 (1876), 116–117. 1876.1

Paulsen, *Paul George.* The world's market for klipfish, roe and herring. Bull. U. S. Fish Comm. 1884, **4**, 392–393. 1884.1

Paulson, *Otto Mikhailovich* [1837–1886] Die Epidermis von *Protopterus annectens.* Bull. Acad. Sci. St. Pétersb., 1865, **8**, 141–145. pl. 1865.1

Paulus, —— Wie man anno 1727 über den Aal und dessen Fortpflanzung schrieb. Schweiz. Fischerei Zeitg., 1896, **4**, 78–79. 1896.1

Paul-Wusterbarth, —— Der tiefe californische Bruttrog. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 271–273. 1879.1

Pauly, *August* [1850 —] Die Fortpflanzung des Aales (*Anguilla vulgaris* Flem.) Oesterr.-ungar. Fischerei Zeitg., 1880, 89–91.— Berichtigung. *Ibid.*, 389–391. 1880.1

—— Beitrag zur Anatomie der Schwimmblase des Aalès (*Anguilla fluviatilis* Fl.) München, 1882. 22 p. 1882.1

Paulze d'Ivoy de la Poype, —— Deux légendes. Le saumon qui naît en mer. Le saumon hamatus. Rev. Sci. Bourbon., Moulins, 1901, **14**, 233–239. 1901.1

—— La question de la pêche dans le bassin de la Loire. Poitiers, 1901. 320 p. 1901.2

Pavesi, *Pietro* [1844–1907] I pesci e la pesca nel cantone Ticino. Lugano, 1871–72. 150 p. 8°. 1871.1

—— Contribuzione alla storia naturale del genere Selache. Ann. Mus. Civ. Genova, 1874, **6**, 5–72. — Arch. Sci. Phys. Nat., 1874, n. s. **2**, 307–324. 1874.1

—— Rapporto a S. E. il Ministro della marina, onorevole signor Saint Bon, contro la pesca dei bianchetti. Atti Soc. Ital. Sci. Nat. Milano, 1875, **18**, 102–110. 1875.1

—— Di una Selache presa recentissimamente nel Mediterraneo ligure. Rendic. Istit. Lomb. Milano, 1877, 2. ser. **10**, 410–411. 1877.1

—— Seconda contribuzione alla morfologia e sistematica dei Selachi. Ann. Mus. Civ. Genova, 1878, **12**, 348–418. pl. & 27 figs. — Arch. Sci. Phys. Nat., 1880, n. s. **4**, 222–260. 1878.1

—— Cenni intorno ai pesci vivi o freschi ed in particolare sui maschi di Anguilla, osservati all' esposizione di Berlino. Rendic. Istit. Lomb. Milano, 1880, 2. ser. **13**, 452–462. 1880.1

—— Relazione e proposte intorno ad una convenzione fra l'Italia e la Svizzera sulla pesca nelle acque comuni ai due stati. Roma, 1880. 22 p. 8°. 1880.2

—— Une série de recherches sur la faune pélagique des lacs du Tessin et d'Italie. Arch. Sci. Phys. Nat. Genève, 1880, no. 2. 1880.3

—— Dalle mie annotazioni zoologiche. Rendic. Istit. Lomb. Milano, 1881, 2. ser. **14**, 610–621. 1881.1

iii. Trematode nuovo (*Holostomum cuticola*) parassita d'un pesce fluviale.
iv. Prime linee di uno studio zoologico delle nostre acque minerali.

—— L'ultima sementa di pesci nei nostri laghi. Rendic. Istit. Lomb. Milano, 1881, 2. ser. **14**, 227–236. Also separate; Milano, 1881. 12 p. 8°. 1881.2

—— Brani biologici di due celebrati pesci nostrali di acque dolce. Rendic. Istit. Lomb. Milano, 1884, 2. ser. **17**, 271–278. 1884.1

—— Notes on hatching and planting young fish in Italian waters [Text in Italian] Atti Soc. Ital. Nat. Hist., 1886, **28**, 253–265. Translation in Bull. U. S. Fish Comm. 1886 (1887), **6**, 263–265. 1886.1

—— Le migrazioni del tonno. Rendic. Istit. Lomb. Milano, 1887, 2. ser. **20**, 311–324. 1887.1

—— Observations on male eels. Bull. U. S. Fish Comm. 1886 (1887), **6**, 222–224. 1887.2

—— L'industria del tonno (*Orcynus thynnus*) Roma, 1889. 6 pls. 4°. 1889.1

—— Notes physiques et biologiques sur trois petits lacs tessinois. Genève, 1889. 7 p. 12°. 1889.2

—— Curioso metacromatismo in Anguilla. Rendic. Istit. Lomb. Milano, 1894, 2. ser. **27**, 688–692. pl. 1894.1

—— Ordini e statuti del pratice dei pescatori di Pavia. Rendic. Istit. Lomb. Milano, 1894, 2. ser. **27**, 115–116. Also separate; Pavia, 1894. 3 pls. 8°. 1894.2

—— La distribuzione dei pesci in Lombardia. Pavia, 1896. 40 p. 3 pls. 8°. Review in Boll. Scient., Pavia, 1896, **5**, 66–71. 1896.1

—— Un coregono nel Ticino. Rendic. Istit. Lomb. Milano, 1898, 2. ser. **31**, 229–236. 1898.1

—— Esquisse d'une faune Valdôtaine. Atti Mus. Nat. Milano, 1904, **43**, 191–260. 1904.1

—— Gli Acipenseri nostrali. Rendic. Istit. Lomb. Milano, 1907, 2. ser. **40**, 332–345. 1907.1

Pavesi, *Pietro,* & **Sulzer,** *J.* Ancora sulle semente di pesci nei nostri laghi. Rendic. Istit. Lomb. Milano, 1881. 2. ser. **14**, 325–329. 1881.1

Pavlenko, *M. N.* Fishes of Peter the Great bay [Text in Russian] Trd. Obšč. Jest., Kazanĭ, 1910, **42**, pt. 2, 95 p. 10 pls. & 13 figs. 1910.1

Pavlov, *H.* A study of the teeth in the sterlet. Arb. St. Petersb. Ges. Naturf., 1879, no. 9, 494–508. 1879.1

Pavlovich, *S. A.* Compte-rendu d'une mission scientifique dans les îles Aland en 1907. Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1909, **13**, 0143–0153. 1909.1

Pavlovskiĭ, *Evgeniĭ* [= *Eugene*] Sur la structure de la moelle épinière de l'esturgeon sterlet. C. R. Mém. Soc. Biol. Paris, 1895, 10. sér. **2**, 487–488. 1895.1

—— Zur Anatomie der Epidermis und ihrer Drüsen bei giftigen Fischen [Text in Russian] Trav. Soc. Nat. St. Petersb., 1907, **38**, pt. 1, 265–282. pl. & figs. 1907.1

—— Zur Kenntnis der Giftdrüsen von *Scorpæna porcus* und *Trachinus draco* [Text in Russian] Trav. Soc. Nat. St. Pétersb., 1907, **37**, pt. 1, 316–337. 1907.2

Pavlovskii, *E.*

—— Ein Beitrag zur Kenntnis der Hautdrüsen (Giftdrüsen) einiger Fische. Anat. Anz., 1909, **34**, 314–330. 6 figs. 1909.1

—— Sur les glandes cutanés des poissons venimeux [Text in Russian] Izv. Voenn.-Med. Akad., St. Petersb., 1909, **18**, 22–42; 161–182; 308–319; 443–452. 3 pls. 1909.2

—— Zur Frage über die Hautdrüsen (giftigen) einiger Fische [Text in Russian] Trav. Soc. Nat. St. Pétersb., 1909, **40**, pt. 1 (C. R.), 109–126; 138. 5 figs. 1909.3

—— Zusatz zum Artikel "Ueber die Giftdrüsen der Fische." Anat. Anz., 1909, **34**, 413. 1909.4

—— Ueber den Bau der Hautepidermis und der Lippen bei *Schizothorax intermedius* und *Capoeta heratensis* [Text in Russian] Trav. Soc. Nat. St. Pétersb., 1910, **41**, pt. 1 (C. R.), 241–264; 271. pl. 1910.1

—— Ein Beitrag zur Kenntniss des Baues der Giftdrüsen einiger Scorpæniden. Zool. Jahrb. (*Abth. Anat.*), 1911, **31**, 529–542. 2 pls. 1911.1

—— Ueber den Bau der Epidermis von Haut und Lippen bei *Schizothorax intermedius* und *Capœta heratensis*. Zool. Jahrb. (*Abth. Anat.*), 1911, **31**, 289–316. 3 pls. 1911.2

—— Zur Frage über den Bau der Giftdrüsen bei den Fischen der Familie Scorpænidæ [Text in Russian] Trav. Soc. Nat. St. Pétersb., 1911, **41**, pt. 1 (C. R.), 317–328. 1911.3

—— Sur la structure des glandes à venin de certains poissons et en particulier de celles de Plotosus. C. R. Mém. Soc. Biol. Paris, 1913, **74**, 1033–1036. 1913.1

—— Sur la structure des glandes à venin de certains poissons et en particulier de celles de Plotosus [Text in Russian] Trav. Soc. Nat. St.-Pétersbourg, 1914, **45**, 1. livr. (C. R.), 13–23. 7 figs. 1914.1

French résumé, p. 38–41.

—— Ueber den Bau der Giftdrüsen bei Plotosus und bei anderen Fischen. Zool. Jahrb. (*Abth. Anat.*), 1914, **38**, 427–442. 3 pls. & 4 figs. 1914.2

Paxton, *E. B.* The Detroit river fisheries. Chicago Field, 1879, **12**, 213. 1879.1

—— The fisheries of the Detroit river. Proc. Centr. Fishcult. Soc., 1. Ann. Meet., 1879, 36–37. 1879.2

Payen, *Anselme* [1795–1871] Composition chimique des poissons. Journ. Agric. Prat., 1834, **2**, 140–141. 1834.1

—— Extrait d'un mémoire sur les matières grasses et les propriétés alimentaires de la chair de différents poissons. C. R. Acad. Sci. Paris, 1855, **41**, 1–7. — Journ. Prak. Chem. (Erdmann) **67**, 54–60. 1855.1

—— Sur la composition chimique du cristallin chez les poissons et les mammifères terrestres. C. R. Mém. Soc. Biol. Paris, 1857, **4**, 94–97. 1857.1

—— Précis théorique et pratique des substances alimentaires. 4. ed. Paris, 1865. 8°. 1865.1

The twelfth chapter treats of the artificial multiplication of fishes.

Payen, *Anselme,* & **Wood,** —— Analyses de plusieurs poissons comestibles. C. R. Acad. Sci. Paris, 1854, **39**, 318–321. 1854.1

Payne, *Fernandus.* The reactions of the blind fish, *Amblyopsis spelæus,* to light. Biol. Bull. Woods Hole, 1907, **13**, 317–323. 1907.1

—— Does Amblyopsis "hear"? (In Eigenmann, C. H. Cave vertebrates of America, p. 102–105. Carnegie Inst. Washington, 1909, pub. no. 104) 1909.1

Payne, *H. T.* Game birds and game fishes of the Pacific coast. Los Angeles, 1914. vii, 181 p. figs. 8°. 1914.1

Payne, *James.* Shipment of salmon ova to New Zealand in 1877. Rept. U. S. Fish Comm. 1878 (1880), **6**, 859. 1880.1

Peabody, *G. A.* Spawning trout from a pond near Cotuit port, Mass., March 20, 1863. Proc. Boston Soc. Nat. Hist., 1863, **9**, 219. 1863.1

Peabody, *George Frederick.* For memorial notice *see* Meehan, W. E., in Trans. Amer. Fisheries Soc. 1909 (1910), 61–62.

Peabody, *James E.* Embryos of the smooth dogfish (*Galeus canis*) Science, 1896, n. s. **4**, 535. 1896.1

—— The ampullæ of Lorenzini of the Selachii. Zool. Bull., Boston, 1897, **1**, 163–178. 9 figs. 1897.1

Peabody, *W. B. O.*, & **Storer,** *David Humphreys*. *See* **Storer** & **Peabody.**

Peach, *Benjamin Neeve*, & **Horne,** *John*. The Silurian rocks of Britain. Vol. i. Scotland. Glasgow, 1899. 749 p. 27 pls. & 121 figs. 8°. 1899.1

—— The base-line of the Carboniferous system round Edinburgh. Rept. Brit. Assoc. Adv. Sci., 74. meet., 1904, 546–547. 1904.1

Holoptychius remains.

—— The Canonbie coalfield: its geological structure and relations to the Carboniferous rocks of the north of England and central Scotland. Trans. Roy. Soc. Edinburgh, 1905, **40**, 835–877. 4 pls. 1905.1

Cladodus, Tristychius, Strepsodus and various Carboniferous ganoids are considered.

Peach, *Charles William*. On the fossil fishes of Cornwall. Trans. Geol. Soc. Cornwall, 1846, **6**, 79–83. 1846.1

—— Notes on natural history and additions to the Cornish fauna [London] 1847. pl. 8°. 1847.1

—— Notes on the habits of Medusæ and of small fishes. Proc. Linn. Soc. London, 1855, **2**, 280–281. 1855.1

—— On fossil fishes from the Old Red Sandstone of Caithness. Rept. Brit. Assoc. Adv. Sci., 29. meet., 1859, 120–121. *Ibid.*, 32. meet., 1862, 85. 1859.1

Acanthodes and Gyroptychius.

—— On the occurrence of the argentine, anchovy and other fishes on the coast of Caithness; with a note on the termination of the vertebral column in the tails of the salmon tribe. Proc. Phys. Soc. Edinburgh, 1859–62, **2**, 256–259. 1859.2

—— On fossil fishes of the Old Red Sandstone of Caithness and Sutherland, with notices of some new to those counties. Rept. Brit. Assoc. Adv. Sci., 37. meet., 1867, 72. 1867.1

Pterichthys, Coccosteus, Acanthodes and ganoids are considered.

—— On spines and plates of a Synapta (Chiradota Esch.) from the stomach of a flat-fish, taken off the east coast of Scotland. Proc. Phys. Soc. Edinburgh, 1867, **3**, 364–365. 1867.2

—— On the fossil fishes of the duchy of Cornwall. Geol. Mag., 1868, **5**, 568–569. — Rept. Brit. Assoc. Adv. Sci., 38. meet., 1868, 76. 1868.1

Pteraspis.

—— On the so-called tailless trout [*Salmo fario*] of Islay. Rept. Brit. Assoc. Adv. Sci., 41. meet., 1871, 133–134. 1871.1

—— Notice accompanying specimen of *Holoptychius nobilissimus* from the Black hill, near Melrose. Trans. Edinburgh Geol. Soc., 1874, **2**, pt. 3, 400. 1874.1

—— On the fossil fish of Cornwall [Pteraspis] Trans. Roy. Geol. Soc. Cornwall, 1875, **9**, pt. 1, 31–33. 1875.1

—— Note on the occurrence of the starry ray (*Raia radiata* Donovan), in the Firth of Forth. Proc. Phys. Soc. Edinburgh, 1880, **5**, 132–133. 1880.1

—— The starry ray (*Raia radiata* Donovan) Journ. Roy. Instit. Cornwall, 1880, **6**, no. 22, 350. 1880.2

Peacock, *Max*. Fishes of Bottesford parish, North Lincolnshire. Naturalist, 1900, 305–306. 1900.1

Peal, *S. E.* Voice in fish. Nature, 1880, **21**, 55. 1880.1

Barbus macrocephalus.

Pearcey, *F. G.* Investigations on the movements and food of herrings, with additions to the marine fauna of the Shetland islands. Proc. Phys. Soc. Edinburgh, 1884–85, 395–415. 1884.1

—— Notes on the marine deposits of the Firth of Forth, and their relation to its animal life. Trans. Nat. Hist. Soc. Glasgow, 1902, n. s. **6**, 217–251. map. 1902.1

Peard, *W.* Practical waterfarming. Edinburgh, 1861. 12°. 1861.1

—— Large salmon. Zoologist, 1873, 2. ser. **8**, 3618. 1873.1

Pearse, *A. S.* Observations on the fauna of the rock beaches at Nahant, Massachusetts. Bull. Wisconsin Nat. Hist. Soc., 1913, n. s. **11**, 8–34. 30 figs. *Ibid.*, 1914, n. s. **12**, 72–80. 1913.1

—— On the food of the small shore fishes in the waters near Madison, Wisconsin. Bull. Wisconsin Nat. Hist. Soc., 1915, n. s. **13**, 7–22. 1915.1

Pearson, *J. T.* Memorandum on the fœtus of the *Squalus maximus*. Journ. Asiat. Soc. Bengal, 1835, **4**, 324. 1835.1

—— On the bora chung, or ground fish of Bootan. Journ. Asiat. Soc. Bengal, 1840, **8**, 551–552. 1840.1

Pearson, *Joseph.* The gourami. Spolia Zeylanica, 1911, **7**, 209–210. 1911.1

—— Sun-fish caught near Jaffna. Spolia Zeylanica, 1911, **7**, 208. pl. 1911.2

—— Crustacea and fish in the sewage tanks at Madampitlya [Ceylon] Spolia Zeylanica, 1912, **8**, 152. 1912.1

—— General fishery questions (In his Administration report on marine biology to the Ceylon Government for 1910–11 [Colombo] 1912) 1912.2

—— The singing fish of Batticaloa. Spolia Zeylanica, 1912, **8**, 150–151. 1912.3

Pease, *J. Ives.* White fish in Tuni lakes. Forest & Stream, 1874, **2**, 229. 1874.1

—— About trout ponds. Forest & Stream, 1876, **7**, 19. 1876.1

Pease, *Josiah C.* Account of bluefish caught about Edgartown, Massachusetts, 1865–71. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 177. 1873.1

Peck, *James I.* On the food of the menhaden. Bull. U. S. Fish Comm. 1893 (1894), **13**, 113–126. 8 pls. 1894.1

—— The sources of marine food. Bull. U. S. Fish Comm. 1895 (1896), **15**, 351–368. 7 pls. 1896.1

Peck, *William D.* Description of four remarkable fishes, taken near the Piscataqua in New Hampshire. Mem. Amer. Acad. Sci., 1804, **2**, pt. 2, 46–57. 1804.1

—— A short description of the atherine, two specimens of which have been lately presented to the cabinet of the Historical Society. Coll. Mass. Hist. Soc., 1810, **3**, 102. 1810.1

Pedaschenko, *D.* Ueber eine eigentümliche Gliederung des Mittelhirnes bei der Aalmutter (*Zoarces viviparus*) Anat. Anz., 1901, **19**, 494–496. 1901.1

—— Zur Entwicklung des Mittelhirns der Knochenfische. Arch. Mikr. Anat., 1901, **59**, 295–314. 3 pls. & 4 figs. 1901.2

Pedley, *Charles.* The history of Newfoundland from the earliest times to the year 1860. London, 1863. 531 p. 8°. 1863.1

Fisheries are frequently referred to.

Pedro, *Dom (pseudon.)* Eyeless fish. Forest & Stream, 1877, **8**, 49. 1877.1

—— Feeding gold fish. Forest & Stream, 1877, **7**, 404. 1877.2

Pédroni, *P. M.* Mémoire sur les poissons fossiles du département de la Gironde. Act. Soc. Linn. Bordeaux, 1844, **13**, 277–298. 2 pls. 1844.1

Peek, *Richard.* Parental attachment of the miller's thumb (*Cottus gobio*) Student Intell. Observ., 1869, **3**, 455–458. 1869.1

Peers, *John.* A five-spined stickleback in Britain. Zoologist, 1864, **22**, 9145. 1864.1

Peetz, *H.* Die Fischwaid in den bayerischen Seen. Kulturhistorische Skizzen. München, 1862. 79 p. 1862.1

Pégot, *Gaston.* Sur quelques anomalies présentées par l'écrevisse, la sangsue, la roussette et le mouton. C. R. Mém. Soc. Biol. Paris, 1900, **52**, 322–324. 1900.1

Peirce, *Milton P.* Black bass in south Jersey. Forest & Stream, 1876, **6**, 147. 1876.1

—— Planting fry. Forest & Stream, 1877, **8**, 81. 1877.1

—— Stocking south Jersey waters with salmon. Forest & Stream, 1877, **7**, 355. 1877.2

—— Notes from the Aquadale ponds. Chicago Field, 1879, **12**, 291. 1879.1

—— Black bass notes from "Aquadale." Forest & Stream, 1880, **15**, 9. 1880.1

—— How the first shad were hatched. Forest & Stream, 1880, **15**, 166. 1880.2

—— Shad hatching and carp. Forest & Stream, 1880, **15**, 386. 1880.3

—— Shad hatching and shad laws. Forest & Stream, 1880, **15**, 67. 1880.4

—— Resuscitation of apparently dead carp. Bull. U. S. Fish Comm. 1884, **4**, 183. 1884.1

Peixotto, *Benjamin F.* The sea fisheries of France and Algiers. Bull. U. S. Fish Comm. 1884, **4**, 417–419. 1884.1

Pel, *H. S.* Over eene nieuwe soorte van Polynemus (*P. macronemus*) Bijdr. Dierkunde, 1848–54, **1**, 9–10. 1848.1

Pelagius (*pseudon.*) An evening with the pollack [*Gadus pollachius*] Fish. Gazette, 1877, n. s. **1**, 7–8. 1877.1

Pelech, *E. János.* A pisztráng *Trutta fario, Salar ausonii valenciennesi* [*Salmo fario* Linn. Bachforelle, Stein-, Gold-, Weiss-, Berg-, Fluss-, Waldforelle] Jahrber. Ungarisch. Karpath., 1879, 6 Jahrg., 80–118; 119–167. 1879.1

Pell, *Mariska.* A halak oldalszervéről. Állatt. Közlem. Köt., 1907, **6**, 63–82; 95. 2 pls. 1907.1

Pell, *Robert L.* Edible fishes of New York, their habits and manner of rearing, and artificial production. Ann. Rept. N. Y. State Agric. Soc. Trans., 1859, **18**, 334–397. 1859.1

Pellegrin, *Jacques.* Contribution à l'étude ichthyologique des îles Mariannes, d'après les envois de M. Marche. Bull. Mus. Hist. Nat. Paris, 1898, **4**, 228–229. 1898.1

—— Description d'une espèce nouvelle du genre Mormyrops. Bull. Mus. Hist. Nat. Paris, 1899, **5**, 362–364. 1899.1

—— Note sur les poissons recueillis par M. F. Geay dans l'Apuré et ses affluents. Bull. Mus. Hist. Nat. Paris, 1899, **5**, 156–159. 1899.2

—— Note sur une anomalie des rayons épineux du cantor, *Proteracanthus sarissophorus.* Bull. Mus. Hist. Nat. Paris, 1899, **5**, 356–357. 1899.3

—— Poissons envoyés par M. Jacquot d'Anthonay, vice-consul de France à Manos (Brésil) Bull. Mus. Hist. Nat. Paris, 1899, **5**, 405–406. 1899.4

—— Revision des exemplaires du genre Ctenopoma de la collection du Muséum et description de trois espèces nouvelles. Bull. Mus. Hist. Nat. Paris, 1899, **5**, 357–362. 1899.5

—— Cichlidés nouveaux de l'Afrique équatoriale. Bull. Mus. Hist. Nat. Paris, 1900, **6**, 275–278. 1900.1

—— Les nases dans le bassin de la Loire. Bull. Soc. Zool. France, 1900, **25**, 64–65. 1900.2

—— Poisson nouveau du lac Baïkal. Bull. Mus. Hist. Nat. Paris, 1900, **6**, 354–356. 1900.3

—— Poissons nouveaux du Congo français. Bull. Mus. Hist. Nat. Paris, 1900, **6**, 98–101. 1900.4

—— Poissons nouveaux ou rares du Congo français. Bull. Mus. Hist. Nat. Paris, 1900, **6**, 177–182; 348–354. 1900.5

—— Les poissons vénéneux. Paris, 1900. 121 p. 16 figs. 8°. Analysis in Rev. Scient., 1899, 4. sér. **14**, 178–180. 1900.6

—— Radiographie appliquée à la détermination de momies de poissons. Bull. Mus. Hist. Nat. Paris, 1900, **6**, 175–176. 1900.7

—— Sur une raie monstrueuse de la famille des cyclocéphaliens. Bull. Soc. Zool. France, 1900, **25**, 106–108. 2 figs. 1900.8

—— Sur une truite géante du lac de Caillaouas (Hautes Pyrénées) Bull. Soc. Centr. Aquicult. Pêche, 1900, **12**, 169–172. 1900.9

—— Description d'un poisson nouveau de l'Oubanghi appartenant au genre Barilius [*B. ubangiensis*] Bull. Mus. Hist. Nat. Paris, 1901, **7**, 250–251. 1901.1

—— Les poissons à gibbosité frontale. Bull. Soc. Philom. Paris, 1901, 9. sér. **3**, 81–91. 5 figs. 1901.2

—— Poissons nouveaux ou rares du Congo français. Bull. Mus. Hist. Nat. Paris, 1901, **7**, 328–332. 1901.3

—— Poissons recueillis par M. L. Diguet dans l'état de Jalisco (Mexique) Bull. Mus. Hist. Nat. Paris, 1901, **7**, 204–207. 1901.4

—— Poissons recueillis par M. Léon Diguet dans le golfe de Californie. Bull. Mus. Hist. Nat. Paris, 1901, **7**, 160–167. 1901.5

—— Sur une raie cornue gigantesque pêchée à Oran. Bull. Mus. Hist. Nat. Paris, 1901, **7**, 327–328. 1901.6

—— Cichlidé nouveau de la Guyane française. Bull. Mus. Hist. Nat. Paris, 1902, **8**, 417–419. 1902.1

—— Cichlidés du Brésil rapportés par M. Jobert. Bull. Mus. Hist. Nat. Paris, 1902, **8**, 181–184. 1902.2

—— Les diables du mer dans la Méditerranée. La Nature, 1902, **30**, pt. 1, 118. 1902.3

—— Présentation de quelques cas de déviations rachidiennes chez les poissons. Bull. Soc. Zool. France, 1902, **27**, 215–219. 3 figs. 1902.4

Pellegrin, *J.*

—— Cichlidé nouveau de l'Oubanghi appartenant au genre Lamprologus. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 220–223. 1903.1

—— Description de cichlidés nouveaux de la collection du Muséum. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 120–125. 1903.2

—— Poissons récoltés dans l'Ouellé, par la mission du Bourg de Bozas. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 326–328. 1903.3

—— Characinidés nouveaux de la Casamance. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 218–221. 1904.1

—— Contribution à l'étude anatomique, biologique et taxinomique des poissons de la famille des cichlidés. Mém. Soc. Zool. France, 1904, **16**, 41–402. 7 pls. & 42 figs. 1904.2

—— Cyprinodontidés nouveaux du Congo et de l'Oubanghi. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 221–223. 1904.3

—— Diagnoses préliminaires de poissons nouveaux du lac Victoria, recueillis par Mr. Alluaud. Bull. Soc. Zool. France, 1904, **29**, 184–186. 1904.4

—— La faune ichthyologique du lac Tchad et du Chari. C. R. 6. Congr. Intern. Zool., Berne, 1904, 608–609. 1904.5

—— Mission G. de Créqui-Montfort et E. Sénéchal de la Grange. Note sur les poissons de la côte chilienne. Bull. Soc. Zool. France, 1904, **29**, 117–121. fig. 1904.6

—— Mission G. de Créqui-Montfort et E. Sénéchal de la Grange. Note sur les poissons des lacs Titicaca et Poopo. Bull. Soc. Zool. France, 1904, **29**, 90–96. 1904.7

—— Mormyridés nouveaux de la collection du Muséum. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 438–442. 1904.8

—— Poissons du Chari et du lac Tchad, récoltés par la mission Chevalier-Decorse. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 309–313. 1904.9

—— Poissons recueillis par M. Ch. Gravier à Djibouti et à Obock. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 543–545. 1904.10

—— Recherches sur les poissons entrant dans la composition de la Poutina, à Nice. C. R. Assoc. Franç. Avanc. Sci., 33. meet., 1904, 269; 920–923. 1904.11

—— Sur les pharyngiens inférieurs chez les poissons du genre Orestias. C. R. Acad. Sci. Paris, 1904, **139**, 682–684. 2 figs. 1904.12

—— Systématique (In Mission scientifique de Ch. Alluaud en Afrique orientale, Juin 1903–Mai 1904) Mém. Soc. Zool. France, 1904, **17**, 174–185. pl. & fig. 1904.13

25 species of teleosts are listed.

—— Catalogue des mormyridés des collections du Muséum d'Histoire Naturelle de Paris. Bull. Mus. Hist. Nat. Paris, 1905, **11**, 141–145. 1905.1

—— L'incubation buccale chez le *Tilapia galilæa* Artédi. C. R. 6. Congr. Intern. Zool., Berne, 1905, 330–332. 1905.2

—— Commensalism de jeunes Caranx et de rhizostomidés. C. R. Assoc. Franç. Avanc. Sci., 34. sess., 1905, 570–571. 1905.3

—— Mission des pêcheries de la côte occidentale d'Afrique. Poissons. Act. Soc. Linn. Bordeaux, 1905, **60**, 17–57. 1905.4

—— Mission des pêcheries de la côte occidentale d'Afrique dirigée par M. Gruvel. Poissons. Bull. Soc. Zool. France, 1905, **30**, 135–141.—Deuxième note. *Ibid.*, 1907, **32**, 83–88. 1905.5

—— Mission permanente française en Indo-Chine. Poissons de la baie d'Along (Tonkin) Bull. Soc. Zool. France, 1905, **30**, 82–88. 1905.6

—— Poisson nouveau de Mozambique. Bull. Mus. Hist. Nat. Paris, 1905, **11**, 145–146. 1905.7

—— Poissons d'Abyssinie et du lac Rodolphe (collection Maurice de Rothschild) Bull. Mus. Hist. Nat. Paris, 1905, **11**, 290–294. 1905.8

—— Les poissons d'eau douce de l'Afrique tropicale française. Bull. Soc. Acclim. Paris, 1905, **51**, 209–225. fig.—Rev. Colon., Paris, 1905, 400–408. 1905.9

—— Sur deux poissons du genre Crenicichla de la collection du Muséum de Paris. Bull. Soc. Zool. France, 1905, **30**, 167–169. 1905.10

—— Catalogue des characinidés africains des collections du Muséum d'Histoire Naturelle de Paris. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 474–480. 1906.1

—— Characinidés nouveaux du Congo. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 366–369. 1906.2

—— Les cichlidés comme poissons d'ornement. Observations en aquarium. Bull. Soc. Acclim. France, 1906, **52**, 300–303. 1906.3

—— Collections recueillies par M. E. Haug, dans l'Ogôoué. Poissons. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 467–471. 1906.4

—— L'incubation buccale chez deux Tilapia d'Ogôoué. C. R. Assoc. Franç. Avanc. Sci., 35. sess., 1906, 127–128; 555–558. 1906.5

—— Les pêcheries de la côte de l'Afrique occidentale française. Bull. Soc. Centr. Aquicult. Pêche, 1906, **18**, 299–305. 1906.6

—— Poisson nouveau du Niger appartenant au genre Distichodus. Bull. Soc. Zool. France, 1906, **31**, 109–110. 1906.7

—— Poissons (In Neveu-Lemaire, M. Les lacs des hauts plateaux de l'Amérique du Sud, p. 112–137. pl. & figs. Paris, 1906) 1906.8

—— Les poissons d'eau douce de l'Indo-Chine française. Rev. Colon., Paris, 1906, 697–716. 1906.9

—— Poissons du Nil Bleu récoltés par M. Ch. Alluaud. Bull. Soc. Zool. France, 1906, **31**, 125–127. 1906.10

—— Poissons nouveaux du Soudan. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 472–474. 1906.11

—— Un poisson volant des eaux douces africaines. La Nature, 1906, **34**, pt. 1, 385–386. fig. 1906.12

—— La présence des nandidés en Afrique. C. R. Assoc. Franç. Avanc. Sci., 35. sess., 1906, 127; 553–554. 1906.13

—— Sur le genre Cottocomephorus et ses affinités. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 89–93. 1906.14

—— Sur un Salarias nouveau de la baie de Tadjourah. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 93–94. 1906.15

—— Characinidés américains nouveaux de la collection du Muséum d'Histoire Naturelle. Bull. Mus. Hist. Nat. Paris, 1907, **13**, 25–27. *Ibid.*, 1908, **14**, 342–347. *Ibid.*, 1909, **15**, 12–14. 1907.1

—— L'incubation buccale chez les poissons. La Science XX^e^ Siècle, Paris, 1907, **5**, 182–184. 1907.2

—— Instructions aux voyageurs naturalistes pour la récolte et la conservation des poissons. Bull. Soc. Centr. Aquicult. Pêche, 1907, **19**, 225–230. 1907.3

—— Liste des poissons recueillis à Madagascar par M. F. Geay. Description d'une espèce nouvelle [*Bedotia geayi*] Bull. Mus. Hist. Nat. Paris, 1907, **13**, 201–206. 1907.4

—— Mission des pêcheries de la côte occidentale d'Afrique dirigée par M. Gruvel. Poissons. 2. note. Bull. Soc. Zool. France, 1907, **32**, 83–88. 1907.5

—— Mission permanente française en Indo-Chine. Poissons du Tonkin. Bull. Mus. Hist. Nat. Paris, 1907, **13**, 499–503. 1907.6

—— Poisson nouveau du genre Alestes [*A. erythropterus* n. sp.] Bull. Soc. Zool. France, 1907, **32**, 139–140. 1907.7

—— Les poissons d'eau douce de l'Indo-Chine. Bull. Soc. Acclim. Paris, 1907, **53**, 268–280; 319–325. 1907.8

—— Poissons de la côte occidentale d'Afrique. Partie ii. Act. Soc. Linn. Bordeaux, 1907, 32 p. 17 figs. 1907.9

—— Les poissons des lacs des hauts plateaux de l'Amérique du Sud. Mission Sci. G. de Créqui-Montfort et E. Sénéchal de la Grange, 1907, 1–25. pls. 1907.10

—— Les poissons du lac Tchad. Rev. Scient., Paris, 1907, 5. sér. **7**, 614–618. 1907.11

—— Poissons du Sud-Cameroun recueillis par la mission Cottes. Bull. Mus. Hist. Nat. Paris, 1907, **13**, 319–332. 1907.12

—— Siluridé nouveau du Fouta-Djalon [*Paramphilius trichomycteroides*, n. g. et n. sp.] Bull. Mus. Hist. Nat. Paris, 1907, **13**, 23–25. 1907.13

—— Sur la gibbosité frontale chez les poissons du genre Ptychochromis. C. R. Acad. Sci. Paris, 1907, **144**, 1168–1170. 1907.14

Pellegrin, *J.*

—— Sur le genre Ptychochromis et sa division en espèces. Bull. Mus. Hist. Nat. Paris, 1907, **13**, 322–324. 1907.15

—— Sur l'incubation buccale chez l'*Arius fissus* C. V. C. R. Acad. Sci. Paris, 1907, **145**, 350–352. 1907.16

—— Sur une collection de poissons recueillie par M. E. Haug, à Ngomo (Ogôoué) Bull. Soc. Philom. Paris, 1907, 9. sér. **9**, 17–42. pl. & 2 figs. *Ibid.*, 1909, 9. sér. **11**, 184–190. 1907.17

—— Sur un poisson acanthoptérygien éocène, *Parapygaeus polyacanthus*, nov. gen. nov. sp. Bull. Soc. Philom. Paris, 1907, 9. sér. **9**, 171–179. fig. 1907.18

—— Collections recueillies par M. E. Haug, dans l'Ogôoué. Liste des poissons et description d'une espèce nouvelle. 2. note. Bull. Mus. Hist. Nat. Paris, 1908, **14**, 347–349. 1908.1

—— Conseils pour la récolte et la conservation des poissons en vue de l'étude scientifique. Bull. Piscicult., Toulouse, 1908, 13–18. — Bull. Soc. Zool. France, **33**, 16–21. 1908.2

—— Description de deux poissons nouveaux de l'Amérique du Sud, de la famille des Loricariidés. Bull. Soc. Zool. France, 1908, **33**, 124–127. 1908.3

—— La faune du lac Tanganyika. Rev. Scient., Paris, 1908, 5. sér. **9**, 680–684. 1908.4

—— L'incubation buccale chez deux Arius de la Guyane. C. R. Assoc. Franç. Avanc. Sci., 36. sess., 1908, 252; 665–672. fig. 1908.5

—— Mission des pêcheries de la côte occidentale d'Afrique. Poissons. Act. Soc. Linn. Bordeaux, 1908, **62**, 71–102. 17 figs. 1908.6

—— Mission du Bourg de Bozas. Poissons. Mém. Soc. Zool. France 1907 (1908), **20**, 419–430. 3 figs. 1908.7

—— Poissons (In Mission Chari-Lac Tchad, (1902–1904) Appendice, p. 433–455. Paris, 1908) 1908.8

—— Poissons d'eau douce de Formose. Description d'une espèce nouvelle de la famille des Cyprinidés. Bull. Mus. Hist. Nat. Paris, 1908, **14**, 262–265. 1908.9

—— Les poissons d'eau douce de la Guyane française. Rev. Colon., Paris, 1908, 25 p. 1908.10

—— Les poissons d'eau douce de Madagascar. Bull. Soc. Acclim. Paris, 1908, **55**, 48–62. 1908.11

—— Poissons du Congo recueillis par la mission d'étude de la maladie du sommeil. Bull. Mus. Hist. Nat. Paris, 1908, **14**, 265–267. 1908.12

—— Poissons recueillis par M. le Docteur Wurtz en Guinée française; description de quatre espèces nouvelles. Bull. Mus. Hist. Nat. Paris, 1908, **14**, 204–209. 1908.13

—— Sur un cas d'occlusion buccale chez le Hotu. Bull. Soc. Centr. Aquicult. Pêche, 1908, **20**, 87–89. 1908.14

—— Sur une collection de poissons recueillis par le Dr. Würtz en Guinée française. Bull. Soc. Philom. Paris, 1908, 9. sér. **10**, 124–135. 1908.15

—— Sur une race monstrueuse de perches. Bull. Soc. Zool. Paris, 1908, **33**, 25–27. 1908.16

—— Sur une race monstrueuse de perches dauphins observée en Seine à Port-Villez. Bull. Soc. Centr. Aquicult. Pêche, 1908, **20**, 42–46. 1908.17

—— Sur une seconde collection de poissons recueillie par M. E. Haug à Ngomo (Ogôoué) Bull. Soc. Philom. Paris, 1908, 9. sér. **11**, 184–190. 1908.18

—— Sur un grand poisson percoïde peu connu du golfe de Californie [*Epinephelus rosaceus* Streets] Bull. Mus. Hist. Nat. Paris, 1908, **14**, 349–352. — C. R. Assoc. Franç. Avanc. Sci., 38. sess., 1908, 80–81. 1908.19

—— L'aquarium d'Amsterdam. Bull. Soc. Centr. Aquicult. Pêche, 1909, **21**, 21–23. 1909.1

—— Characinidés du Brésil rapportés par M. Jobert. Bull. Mus. Hist. Nat. Paris, 1909, **15**, 147–153. 1909.2

—— Collections recueillies par M. E. Haug, dans l'Ogôoué. Poissons. Bull. Mus. Hist. Nat. Paris, 1909, **15**, 66–68. 1909.3

—— Description d'un Barbus nouveau [*B. deserti*, n. sp.] du Sahara. Bull. Mus. Hist. Nat. Paris, 1909, **15**, 239–240. 1909.4

—— Diagnoses préliminaires de poissons nouveaux de l'Afrique orientale anglaise recueillis par M. Alluaud. Bull. Soc. Zool. France, 1909, **34**, 156–159. 1909.5

—— Mission géodésique de l'équateur. Collections recueillies par M. le Dr. Rivet. Description de deux poissons nouveaux de la famille des Loricariidés. Bull. Mus. Hist. Nat., 1909, **15**, 517–519. 1909.6

—— Note complémentaire sur une seconde collection de poissons recueillie par M. E. Haug, à Ngomo (Ogôoué) Bull. Soc. Philom. Paris, 1909, 10. sér. **1**, 45–53. 3 figs. 1909.7

—— Poissons (2^{e} mémoire) Mission des pêcheries de la côte occidentale d'Afrique. Act. Soc. Linn. Bordeaux, 1909, **72**, 76–102. 1909.8

—— Poissons d'eau douce de la Guyane française. Bull. Soc. Acclim. Paris, 1909, **56**, 179–185; 219–227; 271–274; 303–312. 4 figs. — Rev. Colon., Paris, 1908, 577–591. 1909.9

—— Poissons de la Komadougou et du lac Tchad récoltés par la mission Tilho-Gaillard. Bull. Mus. Hist. Nat. Paris, 1909, **15**, 240–245. 1909.10

—— Poissons des pêcheries de la côte occidentale d'Afrique. C. R. Assoc. Franç. Avanc. Sci., 38. sess., 1909, 125. 1909.11

—— Les poissons du genre Vandellia C. V. Bull. Soc. Philom. Paris, 1909, 10. sér. **1**, 197–204. fig. 1909.12

—— Sur la faune ichthyologique du lac Tchad. C. R. Acad. Sci. Paris, 1909, **148**, 1343–1345. 1909.13

—— Sur la faune ichthyologique du lac Victoria. C. R. Acad. Sci. Paris, 1909, **149**, 166–168. 1909.14

—— Sur l'habitat du *Barbus deserti* Pellegrin (lettre de Cortier) Bull. Mus. Hist. Nat. Paris, 1909, **15**, 412. 1909.15

—— Sur le *Prochilodus insignis* Schomburgk. Bull. Mus. Hist. Nat. Paris, 1909, **15**, 153–156. 1909.16

—— Sur un poisson parasite nouveau du genre Vandellia [*V. wieneri*, n. sp.] C. R. Acad. Sci. Paris, 1909, **149**, 1016–1019. 1909.17

—— Mission scientifique de Ch. Alluaud en Afrique orientale (1908–1909) Poissons. Mém. Soc. Zool. France, 1910, **22**, 281–298. pl. 1910.1

—— Les poissons d'ornement exotiques. C. R. Assoc. Franç. Avanc. Sci., 39. sess., 1910, pt. 2, 147–152. 1910.2

—— Description d'un poisson nouveau de Guinée française appartenant au genre Barbus. Bull. Soc. Zool. France, 1911, **36**, 187–188. 1911.1

—— Description d'un poisson nouveau de l'Ogôoué appartenant au genre Nannocharax. Bull. Soc. Zool. France, 1911, **36**, 180–181. 1911.2

—— Description d'un poisson nouveau de l'Ogôoué appartenant au genre Tilapia [*T. haugi*] Bull. Soc. Philom. Paris, 1911, 10. sér. **3**, 276–277. fig. 1911.3

—— La distribution des poissons d'eau douce en Afrique. C. R. Acad. Sci. Paris, 1911, **153**, 297–299. 1911.4

—— Les poissons d'eau douce d'Afrique et leur distribution géographique. C. R. Assoc. Franç. Avanc. Sci., 40. sess., 1911, 1–13. 1911.5

—— Poissons de l'Afrique occidentale française. Mission de M. Gruvel. Bull. Soc. Zool. France, 1911, **36**, 182–186. 1911.6

—— Poissons de Syrie recueillis par M. H. Gadeau de Kerville [*Phoxinellus kervillei*, n. sp.] Bull. Soc. Zool. France, 1911, **36**, 107–110. 1911.7

—— Sur la présence de la *Rana mascareniensis* D. et B. dans la Sahara algérien. Bull. Soc. Zool. France, 1911, **36**, 147–148. 1911.8

Mentions *Barbus deserti* Pellegr. and *B. biscarensis* Blgr. obtained by Capt. Cortier from the Ifédil.

—— Visite de la collection de poissons d'aquarium de M. C. Visser. Bull. Soc Acclim. Paris, 1911, **58**, 502–509. 1911.9

—— Description d'un poisson nouveau de l'Afrique australe appartenant au genre Barbus [*Barbus sauvagei*] Bull. Soc. Zool. France, 1912, **37**, 107–108. 1912.1

—— Description d'un poisson nouveau de l'Orénoque appartenant au genre Xenocara. Bull. Soc. Zool. France, 1912, **37**, 271–272. fig. 1912.2

—— Nouvelle contribution à la faune ichthyologique du lac Victoria. C. R. Acad. Sci. Paris, 1912, 155, 1544–1546. 1912.3

—— La pêche des diables de mer sur la côte est des États-Unis. Bull. Soc. Centr. Aquicult. Pêche, 1912, **24**, 2–5. 2 figs. 1912.4

Pellegrin, *J.*

—— Les poissons d'eau douce d'Afrique et leur distribution géographique. Mém. Soc. Zool. France, 1912, **25**, 63–83. 15 figs. — C. R. Assoc. Franç. Avanc. Sci., 40. sess., 1911, 1–13. 1912.5

—— Poissons de l'équateur recueillis par M. le Dr. Rivet. Mission Géodesique de l'Equateur, 1912, **9**, pt. 2, 1–15. pl. 1912.6

—— Poissons des côtes de l'Angola. Mission de M. Gruvel. Bull. Soc. Zool. France, 1912, **37**, 290–296. 1912.7

—— Poissons du Musée de Naples provenant des expéditions du "Vettor Pisani" et du "Dogali" et de la mer Rouge. Ann. Mus. Zool., Napoli, 1912, n. s. **3**, no. 27, 1–11. 1912.8

—— Quelques poissons intéressants du marché de Paris. Bull. Soc. Zool. France, 1912, **37**, 14–16. 1912.9

—— Reptiles, batraciens et poissons du Maroc (Mission de Mme. Camille du Gast) Bull. Soc. Zool. France, 1912, **37**, 255–262. 1912.10

Pisces, p. 258–262.

—— Reptiles, batraciens et poissons du Maroc (récoltés par le Dr. H. Millet) Bull. Soc. Zool. France, 1912, **37**, 262–264. 1912.11

Pisces, p. 263–264.

—— Sur la dentition des diables de mer. Bull. Soc. Philom. Paris, 1912, 10. sér. **4**, 91–98. 3 figs. — C. R. Acad. Sci. Paris, **154**, 721–723. 1912.12

—— Sur la faune ichthyologique des côtes de l'Angola. C. R. Acad. Sci. Paris, 1912, **155**, 1114–1116. 1912.13

—— Sur la présence d'un banc de *Ranzania truncata* Retzius à la Martinique. Bull. Soc. Zool. France, 1912, **37**, 228–231. fig. 1912.14

—— Sur une collection de poissons des Nouvelles-Hébrides du Dr. Cailliot. Bull. Mus. Hist. Nat. Paris, 1912, **18**, no. 4, 205–207. 1912.15

—— Sur un poisson nouveau pour la faune française le *Centrolophus britannicus* Günther. Bull. Soc. Zool. France, 1912, **37**, 20–23. 1912.16

—— Description d'une variété nouvelle de l'*Haplochilus senegalensis* Steindachner. Bull. Soc. Zool. Paris, 1913, **38**, 84–85. 1913.1

—— Diagnoses préliminaires de cichlidés nouveaux du lac Victoria, recueillis par MM. Alluaud et Jeannel. Bull. Soc. Zool. France, 1913, **38**, 311–314. 1913.2

—— Poissons des côtes de Mauritanie. Mission de M. Gruvel. Bull. Soc. Zool. Paris, 1913, **38**, 116–118. 1913.3

—— Poissons marins de Guinée, de la côte d'Ivoire, du Dahomey et du Congo. Mission de M. Gruvel. Bull. Soc. Zool. Paris, 1913, **38**, 151–158. 1913.4

—— Poissons nouveaux de Guinée française recueillis par M. Pobéguin. Bull. Soc. Zool. Paris, 1913, **38**, 236–241. 1913.5

—— Poissons nouveaux de l'Ogôoué recueillis par M. Ernest Haug. Bull. Soc. Zool. Paris, 1913, **38**, 272–275. 1913.6

—— Sur la présence de poissons des profondeurs sur le marché de Paris. C. R. Acad. Sci. Paris, 1913, **157**, 1166–1168. 1913.7

—— Sur quelques poissons intéressants du marché de Paris (2e note) Bull. Soc. Zool. France, 1913, **38**, 80–82. 1913.8

—— Sur quelques poissons intéressants du marché de Paris (3e note) Bull. Soc. Zool. France, 1913, **38**, 320–325. 1913.9

—— Sur une collection de poissons du Moyen Niger recueillie par M. le Dr. G. Bouet. Bull. Mus. Hist. Nat. Paris, 1913, **19**, 270–271. 1913.10

—— Sur une variété nouvelle du *Barbus callensis* C. V. provenant de l'oasis de Figuig (Maroc) Bull. Soc. Zool. Paris, 1913, **38**, 119–120. 1913.11

—— Sur un nouveau genre de centrarchidés du Gabon. C. R. Acad. Sci. Paris, 1913, **156**, 1488–1489. 1913.12

—— Sur un poisson apode nouveau de la côte de Mauritanie. Communic. 9. Congrès Intern. Zool. Monaco, 1913, 1. sér. 7–8. 1913.13

—— Voyage de C. Alluaud et R. Jeannel en Afrique orientale (1911–1912) Poissons du lac Victoria. Mém. Soc. Zool. Paris, 1913, **26**, 57–71. pl. & fig. 1913.14

—— Description d'un barbeau nouveau de l'Ogôoué [*Barbus labiatomimus*,

n. sp.] Bull. Soc. Zool. France, 1914, **39**, 297–298. 1914.1

—— Missions Gruvel sur la côte occidentale d'Afrique (1905–1912) Poissons. Paris, 1914. 99 p. 1914.2
Bibliography, p. 89–90.

—— Les poissons du bassin du Tchad (In Documents scientifiques de la mission Tilho, 1906–1909, vol. iii, p. 132–180. 6 pls. Paris, 1914) 1914.3

—— Poissons nouveaux du Haut-Zambèze recueillis par M. V. Ellenberger. Bull. Soc. Zool. France, 1914, **39**, 24–28. 1914.4

—— Sur les athérinidés des eaux douces de Madagascar. C. R. Acad. Sci. Paris, 1914, **158**, 432–434. 1914.5

—— Sur un athérinidé nouveau de Madagascar appartenant au genre Bedotia [*B. longianalis*, sp. nov.] Bull. Soc. Zool. France, 1914, **39**, 178–180. 1914.6

—— Sur une dernière collection de poissons recueillie à Madagascar par feu F. Geay. Bull. Mus. Hist. Nat. Paris, 1914, 111–113. 1914.7

—— Sur un sparidé nouveau de Madagascar appartenant au genre Pachymetopon [*P. gibbosus*, sp. nov.] Bull. Soc. Zool. France, 1914, **39**, 264–266. 1914.8

—— Sur une athérine nouvelle [*Atherina alaotrensis*, sp. nov.] des eaux douces de Madagascar. Bull. Soc. Zool. France, 1914, **39**, 46–49. 1914.9

—— Sur une collection de poissons de Madagascar. Bull. Soc. Zool. France, 1914, **39**, 221–234. 1914.10

—— Les vertébrés des eaux douces du Sahara. C. R. Assoc. Franç. Avanc. Sci., 42. sess., 1914, 346–352. 1914.11

—— Les poissons du bassin de l'Ogôoué. C. R. Assoc. Franç. Avanc. Sci., 1915, 43. sess., 500–505. 1915.1

Pellegrin, *Jacques,* & **Fage,** *Louis.* Description d'un Eleotris [*E. balearicus*, n. sp.] méditerranéen nouveau. Bull. Soc. Zool. France, 1907, **32**, 11–12. 1907.1

Pellegrin, *Jacques,* & **Glaize,** *E. P.* Un cas d'intoxication par le barbeau au moment du frai. Bull. Soc. Zool. France, 1903, **28**, 143–145. fig. 1903.1

Pellegrin, *Jacques,* & **Loppé,** *Etienne.* Sur la capture dans le golfe de Gascogne d'un squale nouveau pour la faune française, le *Chlamydoselachus anguineus* Garman. Bull. Soc. Zool. France, 1914, **39**, 234–235. 1914.1

Pellegrin, *Jacques,* & **Vaillant,** *Léon.* *See* **Vaillant** & **Pellegrin.**

Pellen, *Daniel.* American salmon in New Zealand. Forest & Stream, 1877, **7**, 340. 1877.1

Pelletan, *Jules* [1833 —] Expériences sur la mortalité des poissons. Journ. Agricult. Pratique, 1867, 31. année, **1**, 358–361. 1867.1

—— La pisciculture à l'exposition universelle. Journ. Agricult. Pratique, 1867, 31. année, **2**, 679–680. *Ibid.*, 1868, 32. année, **1**, 342–343; 366–369. 1867.2

—— Culture des eaux: le frai. Journ. Agricult. Pratique, 1869, 33. année, **2**, 347–350; 378–381. 1869.1

Peltzam, *Emmanuel Dailovich* [1837 —] Die Zähne von Jungen des Sterlet (*Acipenser ruthenus* L.) Kazan, 1870. 1870.1

—— Biologische Untersuchungen über störartige Fische [Text in Russian] Sitzber. Naturf. Ges. Kasan, 1883, Beilage no. 65, 17 p. 1883.1

—— Beobachtungen über die Segmentation des Sterleteies [Text in Russian] Mitth. Ges. Freunde Naturk., Moscow, 1887, **50**, pt. 1, 206. 1887.1

Pembroke, (*Earl of*) —— Flying-fish. Ann. Mag. Nat. Hist., 1872, 4. ser. **9**, 327–328. 1872.1

—— Sun-fish [viviparous] Ann. Mag. Nat. Hist., 1872, 4. ser. **9**, 328. 1872.2

Peneau, *J.* Les nids des poissons. La Nature, 1913, 41. année, pt. 1, 273–276. 9 figs. 1913.1

Penecke, *Karl Alphonse.* Marine-Fossilien aus Nordgriechenland und dessen türkischen Grenzländern. Denkschr. Akad. Wiss. Wien 1896 (1897), **64**, 41–66. 3 pls. 1897.1
Knochenfische und Haifische (Lamna?)

Pengelly, *William* [1812–1894] On the ichthyolites of east Cornwall. Trans. Geol. Soc. Cornwall, 1849, **7**, 106–108; 115–120. 1849.1

—— On the correlation of the slates and limestones of Devon and Cornwall with the Old Red Sandstones of Scot-

Pengelly, *W.*
land, &c. Rept. Brit. Assoc. Adv. Sci., 32. meet., 1862, 85–87. 1862.1

Placoderms, Phyllolepis and spines of Onchus are mentioned.

—— Fish in the Devonian (not Old Red) rocks. Geol. Mag., 1867, **4**, 188; 284–285. 1867.1

Phyllolepis remains.

—— The history of the discovery of fossil fish in the Devonian rocks of Devon and Cornwall. Rept. Devon. Assoc. Adv. Sci., 1868, **2**, pt. 2, 423–442. 1868.1

—— Boar-fish [*Capros aper*] at Torquay. Zoologist, 1879, 3. ser. **3**, 269. 1879.1

—— Basking shark [*Squalus maximus*] in Torquay harbour. With remarks on the food of this species, quantity of oil, and length of several measured specimens. Zoologist, 1891, 3. ser. **5**, 337–338. 1891.1

Pengo, *Konstantin Konstantinovich* [1841 —] Ueber das Vorkommen des Flussaales, etc. im Asowschen Meere oberhalb des Berdjanskisvhen Gouv., in der Nähe der Petrowskischen Kosakenkolonie [Krakau, 1870] 1870.1

Penn, *Richard* [— 1863] Maxims and hints for an angler, with miseries of fishing. Philadelphia, 1868. 60 p. pls. 12°. 1868.1

Pennant, *Thomas* [1726–1798] British zoology. 4 vols. 2. ed. Chester, 1769. 1769.1

Fishes are treated in vol. iv. The first edition, published 1766, has no reference to fish. A fourth edition was published in 1776, and a fifth in 1812.

—— Indian zoology. London, 1769. 16 pls. 4°. 1769.2

A second edition was published at London in 1790 and a third in 1792.

—— Indische Zoologie, etc. Halle, 1781. fol. 1781.1

German version by J. R. Forster.

—— Arctic zoology. 3 vols. London, 1784–85. 1784.1

—— Arctische Zoologie [German translation] Leipsic, 1787. 4°. 1787.1

—— Arctic zoology. 3 vols. 2. ed. London, 1792. 25 pls. 4°. 1792.1

Penney, *William.* Capture of the globefish (*Tetrodon stellatus*) in the Solent water. Zoologist, 1860, **18**, 6892. 1860.1

—— Boar-fish [*Capros aper*] on the Dorsetshire coast. Zoologist, 1879, 3. ser. **3**, 221–222. 1879.1

Penny, *C. F.* Shark and pilot-fish off San Domingo. Zoologist, 1873, 2. ser. **8**, 3653. 1873.1

Pensa, *Antonio.* Osservazioni sulla distribuzione dei vasi sanguigni e dei nervi nel pancreas. Intern. Monatsschr. Anat. Physiol. 1905, **22**, 90–125. 5 pls. & 5 figs. 1905.1

Perard, *J.* Les pêches maritimes et l'enseignement professionnel des marins. Paris, 1897. 1897.1

Perce, *H. Wheeler.* National aspects of angling and the protection of game fishes. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 1, 193–198. 1910.1

Pereira, *Jonathan* [1804–1853] On cod-liver oil. Pharmac. Journ., 1849, **8**, 370–378. 1849.1

Perels, —— Beitrag über die Seefischerei Norwegens i. J. 1869. Circul. Deutsch. Fischerei Zeitg., 1871, no. 5, 23–28. 1871.1

Perengia, *A.* Nota sopra sviluppo dell' *Acanthias vulgaris.* Boll. Soc. Adriat. Sci. Nat. Trieste, 1879, **5**, 8–17. 1879.1

Perenyi, *Joseph von.* Beiträge zur Embryologie von *Torpedo marmorata* (*Torpedo galvanii* Risso) Zool. Anz., 1886, **9**, 433–436. 1886.1

—— Beiträge zur Entwicklung der Chorda dorsalis und der perichordalen Gebilde bei *Torpedo marmorata.* Math. Naturw. Berichte Ungarn, 1887, **4**, 214–216. *Ibid.*, 1888, **5**, 218–240. 4 pls. 1887.1

—— Die Entwickelung der Keimblätter und der Chorda in neuer Beleuchtung. Anat. Anz., 1889, 4. Jahrg., no. 19, 587–592. 1889.1

—— Die Entstehung des Mesoderms. Vorgelegt der Akademie in der Sitzung vom 21 Oktober 1891. Math. Naturw. Ber. Ungarn, 1891, **8**, 272–278. 2 pls. 1891.1

Pérépelkine, *K.* Sur la structure de la notocorde de la lamproie (*Petromyzon fluviatilis*) Bull. Soc. Nat. Moscou, 1878, **53**, pt. 1, 107–108. 1878.1

Pereyaslavtzeva, *Sof'ya* [= *Sophia*] [1851–1903] Vorläufige Mittheilungen über die Nase der Fische. Inaug. Dissert. Zürich, 1876. 60 p. pl. 8°. 1876.1

Pérez, *Ch. C.* Estudios sobre algunos escualos de la costa de Chile. Valparaiso, 1886. 12 p. 1886.1

—— Le poisson. Son histoire naturelle. Rev. Univers., 1901, 553–557; 583–587. 33 figs. 1901.1

—— Revue annuelle des thèses de zoologie. Rev. Scient., Paris, 1905, 5. ser. **3**, 362–367. 1905.1

Pisces, p. 363–364.

Perez Arcas, *Laureano* [1824–1894] *Macrurus trachyrhynchus* en águilas. Anales Soc. Español. Hist. Nat., 1872, **1**, 25. 1872.1

—— *Macrurus trachyrhynchus* Risso pescado en Zaracoz el mes di diciembre de 1870. Anales Soc. Español. Hist. Nat., 1872, **1**, 5–6. 1872.2

—— Sobre peces escuálidos della costa cantábrica. Anales Soc. Español. Hist. Nat., 1877, **6**, 4–6. 1877.1

—— Nota sobre los peces escuálidos, *Carcharodon carcharias* [*Carcharias lamia*] Anales Soc. Español. Hist. Nat., 1878, **7**, 9–19. *Ibid.*, 1879, **8**, 17–78. 1878.1

Perez Canto, *Clodomiro.* La fauna ictiológica de Chile considerada como riqueza nacional. Anal. Univ. Chile, 1911, **129**, 1215–1260. Also separate; Santiago de Chile, 1912. 46 p. 8°. 1912.1

Perissat, *G.* La navigation maritime et la pêche cotière en Algerie, Paris, 1889. 8°. 1889.1

Perkins, *Seth.* Fish-culture. Forest & Stream, 1880, **14**, 26. 1880.1

Perley, *Moses Henry* [1804–1862] Report on the sea and river fisheries of New Brunswick within the gulf of St. Lawrence and bay of Chaleur. Fredericton, 1850. 137 p. 8°. 1850.1

This volume contains two reports.

—— Some statements in relation to the fisheries of the bay of Fundy. Proc. Boston Soc. Nat. Hist., 1850, **3**, 374. 1850.2

—— Catalogue [in part] of the fishes of New Brunswick and Nova Scotia. Fredericton, 1851. 43 p. 8°. 1851.1

Enumerates 55 species, 42 of which are marine.

—— Report upon the fisheries of the bay of Fundy. Fredericton, 1851. 176 p. 8°. 1851.2

Catalogue [in part] of the fishes of New Brunswick and Nova Scotia, p. 118–159, which was also printed as a separate.

—— Descriptive catalogue [in part] of the fishes of New Brunswick and Nova Scotia. Fredericton, 1852. 50 p. 8°. 1852.1

Contains a list of 62 species, 49 marine and 13 fresh water.

—— Fishery societies. Rept. Fish. New Brunswick, 1852, 260–263. 1852.2

—— Reports on the sea and river fisheries of New Brunswick. 2. ed. Fredericton, 1852. 294 p. 8°. 1852.3

A reprint of the three reports by M. H. Perley published 1850–51.

—— Report on the sea and river fisheries of the gulf of St. Lawrence. Canadian Naturalist, 1859, **4**, 40–56; 84–100. 1859.1

Pernety, *Antoine Joseph* [1716–1801] The history of a voyage to the Malouine (or Falkland) islands, made in 1763 and 1764, under the command of M. de Bougainville, etc. Translated from Dom Pernety's Historical journal, written in French. London, 1771. xvii, 294 p. 9 pls. 4°. 1771.1

—— The same. 2. ed. London, 1773. xviii, 294 p. 9 pls. 4°. 1773.1

Péron, *Alphonse.* Quelques considérations sur la pisciculture et les pisciculteurs. Bull. Travaux Soc. Libr. Emul. Seine-Inférieure, 1858, 91–99. 1858.1

Perrando, *G. G.*, & **Condorelli,** *M.* *See* **Condorelli** & **Perrando.**

Perrault, —— Mémoires pour servir à l'histoire naturelle des animaux. Mém. Acad. Sci. Amiens, 1866, **3**. 1866.1

Perravex, *E.* Sur la formation de la coque des œufs du *Scyllium canicula* et du *S. catulus.* C. R. Acad. Sci. Paris, 1884, **99**, 1080–1082. Abstract in Journ. Roy. Micr. Soc., 2. ser. **5**, 425. 1884.1

[**Perreau,** *J. H.*] [1865—] Pêches, pêcheurs, pêchés! Origines de la pêche, petites pêches, grandes pêches, pêches aux divers engins, engins peu connus, pêches bizarres, la cuisine de la pêche. Paris, 1904. 334 p. 3 double pls. 1904.1

Author's pseudonym, Jho-Pâle, at head of title; illustrated title-page.

Perret, *Auguste.* Les dipneustes. Rev. Scient., 1900, 4. sér. **13**, 786–788. 1900.1

Perrier, *Jean Octave Edmond* [1844—] La philosophie zoologique avant Darwin. Paris, 1884. xii, 292 p. (Bibliothèque scientifique internationale, xlv) 1884.1

Perrier, *J. O. E.*

—— Les explorations sous-marins. 2. ed. Paris, 1891. 243 figs. 8°. 1891.1

—— The origin of the vertebrates. Ann. Mag. Nat. Hist., 1898, 7. sér. **2**, 252–259. — C. R. Acad. Sci. Paris, **126**, 1479–1486. — Rev. Gén. Sci., **9**, 601–608. 8 figs. 1898.1

—— Poissons (In his Traité de zoologie, pt. 6, p. 2357–2726. 206 figs. Paris, 1903) 1903.1

—— Engins, instruments et produits de la pêche et de l'agriculture. Paris, 1904. 8°. 1904.1

Perrier, *Jean Octave Edmond,* & **Anthony,** *Raoul.* Organisation d'une étude générale du plankton de la baie de la Hougue. Bull. Mus. Hist. Nat. Paris, 1907, **13**, 559–563. fig. 1907.1

Perrier, *Léon.* Sur l'omble chevalier du lac de Paladru (Isère) et sur la confusion spécifique qui règne entre l'omble chevalier et l'ombre commune. Ann. Univ. Grenoble, 1899, **11**, 165–178. pl. 1899.1

—— La truite. Rev. Alpine, Lyon, 1902, 3–20. figs. 1902.1

—— Repeuplement des cours d'eau dans le département de l'Isère (Documents statistiques et considérations générales sur le déversements d'alevins effectives pendant la campagne 1909) Trav. Labor. Piscicult. Univ. Grenoble, 1909, pt. 2. 1909.1

—— Une station rhodanienne de "*Branchiura sowerbii*" (Bedd) Ann. Univ. Grenoble, 1909, **21**, 235–242. map. — Trav. Labor. Piscicult. Univ. Grenoble, 1909, pt. 1. 1909.2

Perrier, *Léon,* & **Guyon,** *Joseph.* La station de salmoniculture de Vizille (Isère) et l'organisation rationelle du repeuplement des eaux en France. Ann. Univ. Grenoble, 1906, **18**, 69–84. pl. — Bull. Soc. Centr. Aquicult. Pêche, **18**, 196–211. 1906.1

Perrier, *Léon,* & **Labatut,** —— De l'action des matières organiques sur l'oxygène dissous dans l'eau et d'un mode physiologique d'asphyxie des poissons par les déversements industriels. Congr. Aquicult. Pêche, Paris, 1900. 1900.1

Perrin, *Marshall L.* Salt Lake fish-culture. Forest & Stream, 1874, **3**, 132. 1874.1

—— Report on the movement of a lot of California salmon eggs from the United States salmon breeding establishment on the McCloud river to various states on the eastern coast during the season of 1874. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 449–459. 1876.1

Perroncito, *Edoardo.* Quelques observations sur les maladies parasitaires des poissons. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1904, 266. 1904.1

Perrot, *L.* Description de l'apterichte de Risso, espèce nouvelle trouvée dans la cavité pectorale d'une raie pêchée dans la mer de Nice. Naturw. Anz. Allgem. Schweiz. Ges. (Meissner), 1819, **2**, 33–34. 1819.1

Perrot, *L.*, & **Droz,** *S.* Informations sur les poissons des lacs de Neuchâtel, de Bienne, de Morat et du Doubs. MS. in the library of Neuchâtel, 1811. 1811.1

Perry, *W. A.* [**Sillalicum,** *pseudon.*] **Mosher,** *A. A.*, & others. American game fishes. Chicago & New York, 1892. figs. 8°. 1892.1

Persico, *P.* Un nuovo acquisto per le acque dolce europee (*Salmo mykiss*) Acquicolt. Lombarda, Milano, 1903, **5**, 20–21. 1903.1

Persoon, *C. H.* (*editor*) Dissertationes academicæ Upsaliæ habitæ sub præsidio C. P. Thunberg. 3 vols. Gottingæ, 1799–1801. illust. 8°. 1801.1

Vol. iii, no. 1. De Muræna et Ophichtho, etc., J. N. Ahl, *respondent.*

Pertwee, *A. H.* Proposed further attempt to introduce the gourami ("*Osphromenus olfax*") into Ceylon, with notes on a suitable locality. Spolia Zeylanica, 1911, **7**, 210–212. 1911.1

—— Notes on the freshwater fishes of Ceylon. Spolia Zeylanica, 1913, **8**, 243–250. 1913.1

Perty, *Joseph Anton Maximilian* [1804–1884] Beiträge zur Kenntniss der Fauna Monacensis. Isis (Oken), 1832, 712. 1832.1

Perugia, *Alberto.* Catalogo dei pesci dell' Adriatico. Trieste, 1866. 4°. 1866.1

See also the more extensive recent catalogue by E. Ninni, 1912.1, *supra.*

—— Note sullo sviluppo dell' *Acanthias vulgaris.* Boll. Soc. Adriatica Sci. Nat. Trieste, 1880, **5**, 8–17. 3 pls. 1880.1

—— Elenco dei pesci nell' Adriatico. Milano, 1881. 1881.1

—— Elenco dei pesci raccolti dal Dott. Elio Modigliani nelle isole di Nias e di Sumatra. Ann. Mus. Civ. Storia Nat. Genova, 1889, 2. ser. **7**, 269–277. 1889.1

—— Sui giovani dell' *Orthagoriscus mola.* Ann. Mus. Civ. Storia Nat. Genova, 1889, 2. ser. **7**, 365–368. fig. 1889.2

—— Sul *Gobius fallax* Sarato; lettera al D. C. Bellotti. Ann. Mus. Civ. Storia Nat. Genova, 1890, 2. ser. **9**, 506–508. 1890.1

—— Sulle mixosporidie dei pesci marini. Boll. Sci. Univ. Pavia, 1890, **12**, 134–139. *Ibid.*, 1891, **13**, 22–25. pl. 1890.2

—— Appunti sopra alcuni pesci sud-americani conservati nel Museo Civico di Storia Naturale di Genova. Ann. Mus. Civ. Storia Nat. Genova, 1891, 2. ser. **10**, 605–657. fig. 1891.1

—— Intorno ad alcuni pesci raccolti al Congo dal capitano Giacomo Bove. Ann. Mus. Civ. Storia Nat. Genova, 1891, 2. ser. **10**, 967–977. 1891.2

—— Descrizione di due nuove specie di pesci raccolti in Sarawak dai Sig. G. Doria ed O. Beccari. Ann. Mus. Civ. Storia Nat. Genova, 1892, 2. ser. **12**, 1009–1010. 1892.1

—— Descrizione di una nuova specie di Myxus raccolta nel rio Senegal dal Cap. G. Capurro. Ann. Mus. Civ. Storia Nat. Genova, 1892, 2. ser. **12**, 1007–1008. 1892.2

—— Di alcuni pesci raccolti in Sumatra dal Dott. Elio Modigliani. Ann. Mus. Civ. Storia Nat. Genova, 1893, 2. ser. **13**, 241–247. 1893.1

—— Sopra alcuni pesci di Engano, raccolti dal Dott. Elio Modigliani. Ann. Mus. Civ. Storia Nat. Genova, 1893, 2. ser. **13**, 251–255. 1893.2

—— Viaggio di Lamberto Loria nella Papuasia orientale. Pesci d'acqua dolce. Ann. Mus. Civ. Storia Nat. Genova, 1894, 2. ser. **14**, 546–553. 1894.1

—— Sopra due nuove specie di trematodi ectoparassiti di pesci marini. Atti Soc. Ligust. Sci. Nat. Genova, 1895, **6**, 84–87. 2 figs. 1895.1

—— Due nuove specie di trematodi parassiti delle branchie del *Brama rayi.* Atti Soc. Ligust. Sci. Nat. Genova, 1896, **7**, 135–138. 4 figs. 1896.1

—— Elenco dei pesci raccolti dal Dott. Elio Modigliani nelle isole Mentawei. Ann. Mus. Civ. Storia Nat. Genova, 1896, 2. ser. **16**, 47–54. 1896.2

—— Sopra alcuni pesci raccolti nelle Antille dal Cap. Giuseppe Capurro. Ann. Mus. Civ. Storia Nat. Genova, 1896, 2. ser. **16**, 14–19. 1896.3

—— Di alcuni pesci nuovi pel golfo di Genova. Ann. Mus. Civ. Storia Nat. Genova, 1897, 2. ser. **18**, 136–141. 1897.1

—— Di alcuni pesci raccolti in Bolivia dal Prof. Luigi Balzan. Ann. Mus. Civ. Storia Nat. Genova, 1897, 2. ser. **18**, 16–27. 1897.2

—— Di alcuni pesci raccolti nell' alto Paraguay dal Cav. Guido Boggiani. Ann. Mus. Civ. Storia Nat. Genova, 1897, 2. ser. **18**, 147–150. 1897.3

Perugia, *Alberto,* & **Mazza,** *Felice. See* **Mazza & Perugia.**

Perugia, *Alberto,* & **Parona,** *Corrado. See* **Parona & Perugia.**

Perugia, *Alberto,* & **Trois,** *Enrico Filippo. See* **Trois & Perugia.**

Pesce, *P. A.* Contributo alla conoscenza dei tumori nei pesci. Rivist. Mens. Pesca, Milano, 1907, **9**, 223–225. 1907.1

Pétavel, *J.* Etudes sur le typhus de perches; épizooties de 1867 et 1868. Gaz. Hôpitaux Paris, 1868, **41**, 487. 1868.1

Petch, *T.* Marine zoology at Filey. Naturalist, London, 1903, 351. 1903.1

Petelenz, *J.* Ueber die Anzahl der electrischen Nerven bei *Torpedo marmorata* Risso. Zool. Anz., 1886, **9**, 226–229. fig. 1886.1

Peter, *Gustav Albert* [1853 —] Ueber Kulturversuche mit Spaltpilzen aus gefarbten Fischeiern. Botan. Centralbl., 1884, **18**. 1884.1

Peter, *Johannes.* Lebendig gebärende Zwergfische. Nerthus, 1901, 3. Jahrg., 489–491; 512–514. 4 figs. 1901.1

Peter, *Karl.* Die Bedeutung der Nährzelle im Hoden. Arch. Mikr. Anat., 1898, **53**, 180–211. pl. 1898.1

—— Der Einfluss der Entwicklungsbedingungen auf die Bildung des Centralnervensystems und der Sinnesorgane bei den verschiedenen Wirbeltierklassen. Anat. Anz., 1901, **19**, 177–198. 8 figs. 1901.1

—— Die Entwicklung des Geruchsorgans und Jakobson'schen Organs in der Reihe der Wirbeltiere. Bildung der äusseren Nase und des Gaumens [Cyclostomen, Amphirhinie] (In Hertwig, O. Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere, vol. ii, pt. 2, 8–21. figs. Jena, 1906) 1906.1

—— Ueber die biologische Bedeutung embryonaler und rudimentärer Organe. Arch. Entw. Mech., Leipzig, 1910, **30**, 418–442. 1910.1

Petermann, *August Heinrich* [1822–1878] Notes on the distribution of animals available as food in the Arctic regions. Journ. Geogr. Soc., 1852, **22**. 1852.1

Peters, *E.* Der griechische Physiologus und seine orientalische Uebersetzungen. Berlin, 1898. 1898.1

See also Lauchert, F. Geschichte des Physiologus. Strassburg, 1889.

Peters, *T. M.* A spider fisherman. Amer. Naturalist, 1876, **10**, 688. 1876.1

Peters, *Wilhelm Carl Hartwig* [1815–1883] Bericht über den microscopischen Bau der Fischschuppen. Arch. Anat. (Müller), 1841, ccix. 1841.1

—— Einige neue Fische und Amphibien aus Angola und Mossambique. Monatsber. Akad. Wiss. Berlin, 1844, 32–37. 1844.1

—— Ueber den Bau des electrischen Organes bei dem Zitterwels (*Malapterurus electricus* Lacép.) Monatsber. Verh. Ges. Erdkunde Berlin, 1844, 250–262. — Arch. Anat. (Müller), 1845, 375–377. 1844.2

—— Ueber einen dem *Lepidosiren annectens* verwandten, mit Lungen und Kiemen zugleich versehenen Fisch aus den Sümpfen von Quellimane (*Rhinocryptis amphibia*) Monatsber. Akad. Wiss. Berlin, 1844, 411–414. — Ann. Mag. Nat. Hist., **16**, 348–450. — Arch. Anat. (Müller), 1845, 1–14. 3 pls. — L'Institut, **13**, 217–218. 1844.3

—— Ueber eine neue Gattung von Labyrinthfischen (*Ctenopoma multispinis*) aus Quellimane. Arch. Anat. (Müller), 1846, 480–482. — Ann. Mag. Nat. Hist., **19**, 384–385. 1846.1

—— Diagnosen von neuen Flussfischen aus Mossambique. Monatsber. Akad. Wiss. Berlin, 1852, 275–276; 681–685. 1852.1

—— Ueber das Kiemengerüst der Labyrinthfische. Arch. Anat. (Müller), 1853, 427–430. 1853.1

—— Uebersicht der in Mossambique beobachteten Seefische. Monatsber. Akad. Wiss. Berlin, 1855, 428–466. — Arch. Naturgesch., 21. Jahrg., **1**, 234–282. Also separate; Berlin, 1855. 41 p. 8°. 1855.1

—— Neue Chromidengattung [Hemichromis] Monatsber. Akad. Wiss. Berlin, 1857, 403. 1857.1

—— Eine neue vom Herrn Jagor im atlantischen Meere gefangene Art der Gattung Leptocephalus, und über einige andere neue Fische des Zoologischen Museums. Monatsber. Akad. Wiss. Berlin, 1859, 411–413. 1859.1

—— Ueber zwei neue Gattungen von Fischen (Pterocryptis und Acanthocobitis) aus dem Ganges. Monatsber. Akad. Wiss. Berlin, 1861, 712–713. 1861.1

—— Ueber einige neue Säugethiere, Amphibien und Fische. Monatsber. Akad. Wiss. Berlin, 1864, 381–399. 1864.1

—— Description of a new species of Leptocephalus. Ann. Mag. Nat. Hist., 1865, 3. ser. **15**, 48–49. 1865.1

—— Ueber eine neue Art der Seebarsche, *Labrax schœnleinii*, aus Celebes. Monatsber. Akad. Wiss. Berlin 1865 (1866), 95–97.— Ann. Mag. Nat. Hist., 1865, 3. ser. **15**, 503. 1865.2

—— Ueber eine neue Percoiden-Gattung Plectroperca aus Japan und eine neue Art von Haifischen, *Crossorhinus tentaculatus* aus Neu Holland. Monatsber. Akad. Wiss. Berlin 1864 (1865), 121–126. 1865.3

—— Mittheilung über Fische (Protopterus, Auliscops, Labrax, Labracoglossa, Nematocentris, Serranus, etc.) Monatsber. Akad. Wiss. Berlin, 1866, 509–526. pl. 1866.1

—— Sur les poissons vivipares du genre Hémiramphe. Abstract in Arch. Sci. Phys. Nat. Genève, 1866, n. s. **25**, 180–181. 1866.2

—— Ueber einige Bloch'sche Arten der Fischgattung Serranus. Monatsber. Akad. Wiss. Berlin 1865 (1866), 97–111. 1866.3

—— Ueber lebendig gebärende Arten der Fischgattung Hemirhamphus. Monatsber. Akad. Wiss. Berlin 1865 (1866), 132–133. — Ann. Mag. Nat. Hist., 1865, 3. ser. **15**, 500–501. 1866.4

—— Ueber neue Amphibien und Fische des Königlichen Zoologischen Museums. Monatsber. Akad. Wiss. Berlin, 1866, 86–96. 1866.5

—— Ueber die systematische Stellung des Lepidosirens. Monatsber. Akad. Wiss. Berlin 1866 (1867), 12–13. — Ann. Mag. Nat. Hist., 1866, 3. ser. **17**, 473. 1866.6

—— Naturwissenschaftliche Reise nach Mossambique. Zoologie. Berlin, 1868. 116 p. 20 pls. 4°. 1868.1

Flussfische.

—— Ueber den in Moçambique vorkommenden Zitterwels, *Malapterurus electricus*. Monatsber. Akad. Wiss. Berlin, 1868, 121–124. 1868.2

—— Ueber die von Herrn Dr. F. Jagor in dem ostindischen Archipel gesammelten Fische. Monatsber. Akad. Wiss. Berlin, 1868, 254–281; 460–461. 1868.3

—— Ueber eine neue Nagergattung (*Chiropodomys penicillatus*), so wie über einige neue oder weniger bekannte Amphibien und Fische. Monatsber. Akad. Wiss. Berlin, 1868, 448–460. 1868.4

—— Ueber eine neue Untergattung (Peronymus) der Flederthiere und über neue Gattungen und Arten von Fischen. Monatsber. Akad. Wiss. Berlin, 1868, 145–148. 1868.5

—— Ueber eine von dem Baron Carl von der Decken entdeckte neue Gattung von Welsen (*Chiloglanis deckenii*), und einige andere Süsswasserfische aus Ostafrica. Monatsber. Akad. Wiss. Berlin, 1868, 598–602. 1868.6

—— Neue Süsswasserfische der v. d. Decken'schen Sammlung (In Baron C. C. von der Decken's Reisen in Ost Afrika in 1859–61, Bd. iii, Abth. 1. Leipzig & Heidelberg, 1869) 1869.1

—— Ueber *Cepola rubescens* und die von Einigen angenommene Verwandlung von Leptocephalus in Cepola. Monatsber. Akad. Wiss. Berlin 1868 (1869), 130–131. 1869.2

—— Ueber neue oder weniger bekannte Fische des Berliner Zoologischen Museums. Monatsber. Akad. Wiss. Berlin, 1869, 703–711. 1869.3

—— Ueber *Ceratodus forsteri* Krefft aus Australien. Sitzber. Ges. Naturf. Freunde Berlin, 1871, 29. 1871.1

—— Ueber den auch im jugendlichen Zustande schuppenlosen Lederkarpfen, *Cyprinus carpio* [var. *nudus*] Bloch. Sitzber. Ges. Naturf. Freunde Berlin, 1871, 77–78. 1871.2

—— Ueber die in dem Zambezegebiet vorkommende Art von Hemirhamphus. Monatsber. Akad. Wiss. Berlin 1871 (1872), 32–33. 1872.1

—— Ueber eine neue Gattung von Fischen aus der Familie der Cataphracti Cuv., *Scombrocottus salmoneus*, von der Vancouvers-Insel. Monatsber. Akad. Wiss. Berlin, 1872, 568–570. 1872.2

—— Ueber *Tetrodon punctatus* Bloch-Schneider [*T. testudineus*] Sitzber. Ges. Naturf. Freunde Berlin, 1872, 47–48. 1872.3

—— Zweite deutsche Nordpolar Expedition. Leipzig, 1874. 2 pls. 8°. 1874.1

Säugethiere und Fische.

—— Ueber die Unterschiede der nordamerikanischen Alse oder Shad, *Clupea præstabilis*, von der europäischen, *Clupea alosa*. Circul. Deutsch. Fischerei-Ver. 1874 (1875), 1. Jahrg., no. 5, 198–199. 1875.1

—— Ueber eine neue Art von Maränen, *Coregonus generosus*, aus der Mark Brandenburg. Monatsber. Akad. Wiss. Berlin 1874 (1875), 790–795. fig. 1875.2

—— Sur l'*Epigonichthys cultellus* du groupe des leptocardés. Journ. Zool. (Gervais), 1876, **5**, 348–352. fig. 1876.1

—— Ueber eine neue mit Halieutæa verwandte Fischgattung, Dibranchus, aus dem atlantischen Ocean [*D. atlanticus*, n. g. et sp.] Monatsber. Akad. Wiss. Berlin 1875 (1876), 736–742. 1876.2

Peters, *W. C. H.*

—— Uebersicht der von Dr. K. Möbius in Mauritius und bei den Seychellen gesammelten Fische. Monatsber. Akad. Wiss. Berlin 1875 (1876), 435–447. 1876.3

—— Uebersicht der während der von 1874 bis 1876 unter dem Commando des Hrn. Capitän z. S. Freiherrn von Schleinitz ausgeführten Reise S. M. S. "Gazelle" gesammelten und von der Kaiserlichen Admiralität der königlichen Akademie der Wissenschaften übersandten Fische. Monatsber. Akad. Wiss. Berlin, 1876, 831–854. 1876.4

—— Eine Uebersicht über die während der sibirischen Expedition von 1876 von Dr. O. Finsch gesammelten Säugethiere, Amphibien und Fische. Monatsber. Akad. Wiss. Berlin, 1877, 734–738. 1877.1

—— *Epigonichthys cultellus* Peters. Kosmos, 1877–78, **2**, 165–166. 1877.2

—— Ueber die von Dr. C. Sachs in Venezuela gesammelten Fische. Monatsber. Akad. Wiss. Berlin, 1877, 469–473. 1877.3

—— Ueber die von Dr. Reinhold Buchholz in Westafrika gesammelten Fische. Monatsber. Akad. Wiss. Berlin 1876 (1877), 244–252. 1877.4

—— Ueber eine merkwürdige von Dr. Buchholz entdeckte neue Gattung von Süsswasserfischen, *Pantodon buchholzii*, welche zugleich eine neue, den *Malacopterygii abdominales* angehörige Gruppe von Fischen, Pantodontes, repräsentirt. Monatsber. Akad. Wiss. Berlin 1876 (1877), 195–200. pl. 1877.5

—— Ueber *Epigonichthys cultellus*, eine neue Gattung und Art der Leptocardii. Monatsber. Akad. Wiss. Berlin 1876 (1877), 322–327. 1877.6

—— Ueber eine neue merkwürdige Art von fliegenden Fischen, *Exocœtus cirriger*, aus China, und einen neuen Muraeniden, *Ophichthys bitæniatus*, aus Mombus. Monatsber. Akad. Wiss. Berlin 1877 (1878), 555–556. 1878.1

—— Ueber das Vorkommen der Edelmaräne, *Coregonus generosus*, in dem Gorzyner See, Kreis Birnbaum. Circul. Deutsch. Fischerei Ver., 1880, no. 2, 57. 1880.1

—— Ueber die von der chinesischen Regierung zu der internationalen Fischerei-Ausstellung gesandte Fischsammlung aus Ningpo. Monatsber. Akad. Wiss. Berlin, 1880, 921–927. 1880.2

—— Ueber eine Sammlung von Fischen, welche Dr. Gerlach in Hongkong gesandt hat. Monatsber. Akad. Wiss. Berlin, 1880, 1029–1037. 1880.3

—— Ueber die Verschiedenheit von *Syngnathus* (*Belonichthys*) *zambezensis* Ptrs. und *S.* (*B.*) *mento* Bleeker und über eine neue Art der Schlangengattung Callophis von den Philippinen. Sitzber. Ges. Naturf. Freunde Berlin, 1881, 109–117. 1881.1

—— Ueber vier neue Fische [*Pterygoplichthys* (*Ancistrus*) *parananus; Barbus strauchi; Leuciscus tincella* Cuv. et Val.; *Anguilla hildebrandti*] Sitzber. Ges. Naturf. Freunde Berlin, 1881, 17–19. 1881.2

—— Ueber drei neue Arten von Mormyrus [*M. cobitiformis, tenuirostris, hildebrandti*] aus Ost- und Westafrika, und eine Art von Clarias [*C. submarginatus*] aus Westafrika. Sitzber. Ges. Naturf. Freunde Berlin, 1882, 72–74. 1882.1

Peters, *Wilhelm Carl Hartwig,* & **Möbius,** *Karl. See* **Möbius & Peters.**

Peters, *Wilhelm Carl Hartwig,* & **Steindachner,** *Franz.* Ueber neue Fische aus China und Japan. 5 Abhandlungen. Berlin & Wien, 1864–80. 2 pls. 8°. 1864.1

Petersen, *Carl Georg Johan* [1860 —] Nye bidrag til den danske hav-fiske; fauna. Vidensk. Meddel. Naturh. Foren., 1884–86, 151–160. Also separate. Kjøbenhavn, 1886. 8°. 1884.1

—— Dødelighed blandt fiske. Nordisk Aarsskr. Fiskeri, 1886, 3. Aarg., 47–49. 1886.1

—— Dyrelivet. Fiskenes forplantning (Tillæg A: Om naturforholdene i Farvandene indenfor Skagen) Tillæg B: De i Farvandene indenfor Skagen hyppigere forekommende saltvandsfiske (In Drechsel, C. F. Oversigt over vore saltvandsfiskerier i Nordsoen og Farvandene indenfor Skagen, p. 112–146. Kjøbenhavn, 1890. illust. 4°) 1890.1

—— Beretning til indenrigsministeriet fra den danske biologiske station. I. Fiskerei-beretning for finantsaaret, 1890–91, p. 121–183. Kjøbenhavn, 1891. 1891.1

Report of the Danish biological station. This and subsequent annual reports contain much information on fish and fishing in Danish seas.

—— Fiskenes biologiske forhold i Holbæk fjord 1890–91. Beretn. Landbrugsminist. Dansk. Biol. Stat. (*Fiskeri Beretn.*) 1890 (1891), 121–184. 1891.2

—— Om vore Kutlingers (Gobius) æg og ynglemaade. Vidensk. Meddel. Naturhist. Foren., 1891, 1–14. 2 pls. 1891.3

—— Studier over fiskenes alder og vækst, samt nogle dermed i forbindelse staaende spörgsmaal. Stockholm, 1892. 12 p. 1892.1

—— Beretning til indenrigsministeriet fra den Danske biologiske station. III. Fiskerei-beretning for finantsaaret, 1892–93. Copenhagen, 1893. 38 p. 8°. 1893.1

—— Hvor ere rødspætterne om vinteren? Dansk Fiskeriforen, Medlemsbl., 1893, 2. Aarg., 17–19. 1893.2

—— Isingen (plæden, sletten, *Pleuronectes limanda*) [The common dab, *Pleuronectes limanda*] Beretn. Landbrugsminist. Dansk. Biol. Stat. (*Fiskeri Beretn.*) 1893, **3**, 16–18. 1893.3

—— Spæd rødspætteyngel findes ikke i Østersøen (Foreløbig meddelelse) Dansk Fiskeriforen. Medlemsbl., 1893, 2. Aarg., 397–398. 1893.4

—— Tangsnarren (*Spinachia vulgaris*) Beretn. Landbrugsminist. Dansk. Biol. Stat. (*Fiskeri Beretn.*) 1892 (1893), **3**, 23–26. 1893.5

—— Torsken (*Gadus callarias*) Beretn. Landbrugsminist. Dansk. Biol. Stat. (*Fiskeri Beretn.*) 1892 (1893), **3**, 19–21. 1893.6

—— On the biology of our flat-fishes and on the decrease of our flat-fish fisheries. Rept. Danish Biol. Stat., 1894, **4**, 1–147. 2 pls. 1894.1

—— Smaa blankaal. Dansk Fiskeriforen. Medlemsbl., 1894, 3. Aarg., 527. 1894.2

—— Aalens forplantning (Efter Grani, Calandruccio og Cunningham) Dansk Fiskeriforen. Medlemsbl., 1895, 4. Aarg., 325–326. figs. 1895.1

—— Eine Methode zur Bestimmung des Alters und Wuchses der Fische. Mitth. Deutsch. Seefischerei Ver., 1895, **11**, 226–235. 1895.2

—— Hat die Ostsee einen echter Schollenbestand? Zool. Anz., 1895, **18**, 200. 1895.3

—— Das Paarungskleid des Aales; eine vorläufige Mittheilung. Mitth. Deutsch. Seefischerei Ver., 1895, no. 2, 6 p. Also separate; Kjøbenhavn, 1896. 4°. 1895.4

—— The common eel (*Anguilla vulgaris* Turton) gets a particular breeding-dress before its emigration to the sea. The bearing of this fact on the classification and on the practical eel-fisheries. [Text in Danish and English] Rept. Danish Biol. Stat. 1894 (1896), 5–35. 2 pls. 1896.1

—— Om de ved Frederikssund i Roskildefjord 1894 iagttagne fiskearter med bemærkninger o. s. v. Rept. Danish Biol. Stat. 1894 (1896), 41–42. 1896.2

—— Om de ved stege og nærliggende indenskærs farvande levende fiskearter med bemærkninger om deres forekomst, legetid o. s. v. Rept. Danish Biol. Stat. 1894 (1896), 37–40. 1896.3

—— Om mærkning af levende rødspætter. Rept. Danish Biol. Stat. 1894 (1896), 48–52. 1896.4

—— The yearly immigration of young plaice into the Limfjord from the German sea. — The yearly fishing-up in the Fjord of the fish over the size limit. How to get a considerably increased income from this plaice fishery, which is now estimated at 300,000 Kroner a year, by the transplantation of young plaice. Rept. Danish Biol. Stat., 1897, **6**, 5–48. 2 pls. 1897.1

—— Plaice culture in the Limfjord, Denmark. Rept. Brit. Assoc. Adv. Sci., 69. meet., 1899, 784–786. 1899.1

—— Den moderne marine biologi. Biol. Selsk. Forh. 1898–99 (1900), 22–26. 1900.1

—— List of eel-wheel places in Denmark, with remarks on the migrations of the eel, etc. [Text in Danish] Rept. Danish Biol. Stat., 1901, **10**, 3–28. map. 1901.1

—— On the breeding-grounds of the herring [Text in Danish] Rept. Danish Biol. Stat., 1901, **10**, 35–36. 1901.2

—— On the plaice in the Limfjord . . . 1899–1900 [Text in Danish] Rept. Danish Biol. Stat., 1901, **10**, 29–32. 1901.3

—— The biology of the cod in the Danish seas [Text in Danish and English] Rept. Danish Biol. Stat., 1902, **11**, 3–24. 1902.1

Petersen, *C. G. J.*

—— Some general observations on protection, legislation, etc. in regard to fishes [Text in Danish] Rept. Danish Biol. Stat., 1902, **11**, 28–39. 1902.2

—— On other Gadidæ in the Danish seas [Text in Danish and English] Rept. Danish Biol. Stat., 1902, **11**, 24–27. 1902.3

—— Torskens biologi i de danske farvande [The biology of the cod in the Danish seas] Beretn. Landbrugsminist. Dansk. Biol. Stat. 1900–01 (1902), **11**, 3–23. figs. — Rept. Danish Biol. Stat. 1900–01 (1902), **11**, 3–24. figs. 1902.4

—— How to distinguish between mature and immature plaice throughout the year. Conseil Perm. Intern. Explor. Mer, Public. de Circonstance, 1903, no. 1, 1–7. pl. 1903.1

—— The plankton in the Danish seas in the years 1898–1901 [Text in Danish] Dansk. Vidensk. Selsk. Skrift., Kjøbenhavn, 1903, 6. ser. **12**, 219–262. 1903.2

—— What is over-fishing? Journ. Mar. Biol. Assoc., 1900–03, n. s. **6**, 587–594. pl. 1903.3

—— Aalen. Hvad man ved om den samt anvisning paa at forøge udbyttet af aalefiskeriet. Populært fremstillet. Kjøbenhavn, 1904. 28 p. figs. 8°. 1904.1

—— Hvor og under hvilke Forhold kunne Rødspættens æg udvikle sig til unger indenfor Skagen? Rept. Danish Biol. Stat., 1904, **12**, 3–23. 1904.2

—— Om Smaahvarrernes (Zeugopterus-Slægtens) Unger. Rept. Danish Biol. Stat., 1904, **12**, 3–23. pl. 1904.3

—— On the larval and postlarval stages of the long rough dab and the genus Pleuronectes. Meddel. Komm. Havundersøgelser Ser. Fiskeri, 1904, **1**, no. 1. 12 p. 2 pls. 1904.4

—— Larval eels (*Leptocephalus brevirostris*) of the Atlantic coasts of Europe. Meddel. Komm. Havundersøgelser Ser. Fiskeri, 1905, **1**, no. 5. 5 p. 1905.1

—— Bericht über die Tätigkeit der Kommission C_2 in der Periode Februar 1903–März 1906. I. Ueber die in den Jahren 1904 und 1905 an den Küsten der Ostsee beobachtete Brut von Plattfischen. Conseil Perm. Intern. Explor. Mer, Rapp. Proc.-Verb., 1906, **5**, 11–36. 3 pls. 1906.1

—— On the larval and postlarval stages of some Pleuronectidæ (Pleuronectes, Zeugopterus) Meddel. Komm. Havundersøgelser Ser. Fiskeri, 1906, **2**, no. 1. 9 p. pl. 1906.2

—— Om lysets indflydelse paa aalens vandringer [The influence of light on the wanderings of the eel] Rept. Danish Biol. Stat., 1907, **14**, 1–9. 1907.1

—— Biological investigations on the stock of plaice in the Limfjord. Rept. Danish Biol. Stat., 1909, **18**, 15–19. 3 pls. 1909.1

—— On the larval and postlarval stages of some Pleuronectidæ (Zeugopterus, Arnoglossus, Solea) Meddel. Komm. Havundersøgelser Ser. Fiskeri, 1909, **3**, no. 1. 18 p. 2 pls. 1909.2

—— The yield of the Limfjord fisheries in recent years and the transplantation of plaice in 1908. Rept. Danish Biol. Stat., 1909, **18**, 3–14. 6 pls. & chart. 1909.3

—— Some experiments on the possibility of combating the harmful animals of the fisheries, especially the whelks in the Limfjord. Rept. Danish Biol. Stat., 1911, **19**, 1–20. illust. 1911.1

—— Ueber Menge und Jahresproduktion der Benthospflanzen an den westeuropäischen Küsten. Intern. Rev. Hydrobiol., Leipzig, 1912, **5**, 47–52. 1912.1

Petersen, *Carl Georg Johan,* **Garstang,** *Walter,* & **Kyle,** *Harry M.* Summarischer Bericht über den gegenwärtigen Stand unserer Kenntnisse in Betreff der Scholle und der Schollenfischerei, A. des Kattegats, B. der Nordsee. Conseil Perm. Intern. Explor. Mer, Rapp., 1907, **7**, 55–150. 1907.1

Petersen, *Carl Georg Johan,* & **Hjort,** *Johan. See* **Hjort** & **Petersen.**

Petersen, *Carl Georg Johan,* **Kyle,** *Harry M.,* & **Johansen,** *Anders Cornelius Jacob.* Memorandum sur la valeur de la statistique des marchés de poisson. Conseil Perm. Intern. Explor. Mer, Rapp. & Proc. Verb., 1905, **4**, 74–82. 1905.1

Petersen, *Carl Georg Johan,* **Winge,** *Herluf,* & **Winge,** *Oluf.* Dyrelevninger fra ældre og yngre stenalders Bopladser, bestente af C. G. Joh. Petersen, Herluf Winge og Oluf Winge. Aarbøg. Nordisk Oldkyndighed Historie, 1888, **3**, 310–322. 1888.1

Pisces af Herluf Winge.

Petersen, *Hans.* Beiträge zur Kenntnis des Baues und der Entwicklung des Selachierdarmes. Jena. Zeitschr. Naturw., 1908, **43**, 619–652. 3 pls. & 4 figs. *Ibid.*, **44**, 123–148. 3 pls. & 18 figs. 1908.1

—— Studien zur vergleichenden und allgemeinen Mechanik des Tierkörpers. I. Das Kiefergelenk des Kabeljau, *Gadus morrhua.* Arch. Entw.-Mech., 1914, **39**, 51–111. 2 pls. & 20 figs. 1914.1

Comparative study of the different parts of the organ-complex and its adaptations.

Petersen, *Max.* Zur Brutpflege der Lophobranchier. Zool. Jahrb. (*Abth. Syst.*) 1906, **24**, 265–306. pl. & 15 figs. 1906.1

Petersen, *P.*, & **Soxleth,** *F. See* **Soxleth & Petersen.**

Petersen, *R.* Mittheilungen über die Schleswig-Holsteinische Seefischerei vom 16. April 1871. Circul. Deutsch. Fischerei Ver., 1871, no. 5, 35–39. 1871.1

—— Fiskerierne ved Stambuset Moltenborg i fyen. Tidsskr. Fiskeri, 1872, 6. Jahrg., 129–152. 1872.1

Petherick, *John*, & **Petherick,** *B. H.* (*Mrs.*) Travels in central Africa and explorations of the western Nile tributaries. 2 vols. London, 1869. 8°. 1869.1

The fishes of the Nile, by A. Günther, vol. ii, Append. C.

Pétillot, *L.* Une richesse du Cambodge; la pêche et les poissons. Paris, 1911. pls., figs. & maps. 8°. 1911.1

Petit, *G.* La truite de rivière [Paris] 1897. 439 p. figs. 1897.1

Petrascheck, *W.* Die Zone des *Actinocamax plenus* in der Kreide des östlichen Böhmen. Jahrb. Geol. Reichsanst. Wien, 1905, **55**, 399–434. pl. & 8 figs. 1905.1

Ptychodus mammillaris Ag.

Petri, —— Beiträge zur Sumpffischerei-Frage. Circul. Deutsch. Fischerei Ver., 1873, no. 2, 32–39. 1873.1

Petri, *Karl Robert* [1852 —] Die Copulationsorgane der Plagiostomen. Zeitschr. Wiss. Zool., 1878, **30**, Heft 2, 288–335. Also separate; Leipzig, 1877. 48 p. 3 pls. 8°. 1878.1

Petsoldt, —— Der Aal in der Donau. Bayer. Fischerei Zeitg., 1880, 5. Jahrg., 66–67. 1880.1

Pettersen, *Wolter af.* Försök till en beskrifning öfver Kimito socken i Abo län. Finsk. Hushållningssällsk., 1824, **5**, 7–43. 1824.1

Pisces, p. 31–32; 39.

Pettersson, *O.*, **Ekman,** *G.*, & **Trybom,** *F. See* **Ekman, Pettersson & Trybom.**

Pettersson, *O.*, & **Schneider,** *Guido.* Entwurf zur Vorbereitung eines internationalen Uebereinkommens zum Schutz und zur Vermehrung des Schollenbestandes in der Nordsee und angrenzenden Meeresteilen. Svenska Hydrograf.-Biol. Komm. Skrifter, 1908, **3**, 1–5. 1908.1

Pettigrew, *James Bell* [1834–1908] On the anatomy and physiology of the mitral, tricuspid and semilunar valves in mammals, birds, reptiles and fishes. Proc. Roy. Soc. Edinburgh, 1866, **5**, 193–197. 1866.1

Pettigrew, *W. W.* Notes on the hatchery and fish hatching at Roath park. Rept. Trans. Cardiff Nat. Hist. Assoc., 1905, **36**, 53–62. 1905.1

Pettis, *Clifford R.* The albino brook trout. 8. & 9. Rept. Forest, Fish & Game Comm. New York 1902 (1903), 295–302. pl. — Science, n. s. **19**, 867–868. 1903.1

Pettit, *Auguste.* Remarques anatomiques et physiologiques sur les capsules surrénales des téléostéens et des dipnoïques. Bull. Mus. Hist. Nat. Paris, 1896, **2**, 19–22. 1896.1

—— Recherches sur les capsules surrénales. Journ. Anat. Physiol., Paris, 1896, **32**, 301–362; 369–419. 1896.2

—— Altérations rénales consécutives à l'injection de sérum d'anguille. Bull. Mus. Hist. Nat. Paris, 1898, **4**, 92–95. — C. R. Mém. Soc. Biol. Paris, 1898, 320–322. 1898.1

—— Altérations rénales consécutives à l'injection du sérum de congre. Bull. Mus. Hist. Nat. Paris, 1901, **7**, 75–77. 1901.1

—— Kératite interstitielle chez le *Pagellus centrodontus* Cuv. et Val. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 282–284. fig. 1903.1

—— Contentif pour poissons (Squalidés) C. R. Mém. Soc. Biol. Paris, 1904, **56**, pt. 2, 627–628. — Bull. Mus. Hist. Nat. Paris, **11**, 56–57. 1904.1

Pettit, *A.*
—— Sur la présence de cellules fusiformes dans le sang des ichthyopsides consécutivement à l'ablation de la rate. Bull. Mus. Hist. Nat. Paris, 1904, **10,** 526–527. 1904.2

—— Sur la pyknose du noyau des hématies. Bull. Mus. Hist. Nat. Paris, 1904, **10,** 528. 1904.3
In *Scyllium canicula.*

—— Sur l'hypophyse de *Centroscymnus cœlolepis* Boc. et Cap. C. R. Mém. Soc. Biol. Paris, 1906, **61,** 62–64. 1906.1

—— A propos de la structure de la surrénale; réponse aux critiques de M. Audigé. C. R. Mém. Soc. Biol. Paris, 1910, **69,** 33–34. 1910.1
Matériel: Anguilla, Sardinius, Leuciscus.

Pettit, *Auguste,* & **Drzewina,** *Anna.* *See* **Drzewina** & **Pettit.**

Pettit, *Auguste,* & **Geay,** *F.* Sur des pièces anatomiques [nageoires pectorales d'un siluridé] rapportées de la Guyane. Bull. Mus. Hist. Nat. Paris, 1901, **7,** 275–277. fig. 1901.1

Pettit, *Auguste,* & **Girard,** *Joseph.* Sur la fonction sécrétoire et la morphologie des plexus choroïdes des ventricules latéraux du système nerveux central. Arch. Anat. Micr., 1902, **5,** 213–264. pl. & 6 figs. 1902.1
Matériel: Raja, Mustelus, Acanthias, Conger.
Index bibliographique, p. 262–264.

—— Sur la morphologie des plexus choroïdes du système nerveux central. C. R. Mém. Soc. Biol. Paris, 1902, **54,** 698–699. 1902.2
Sélaciens.

Pettit, *Auguste,* & **Laveran,** *A.* *See* **Laveran** & **Pettit.**

Pettit, *Auguste,* & **Vaillant,** *Léon.* *See* **Vaillant** & **Pettit.**

Pettit, *H. W.* Pisciculture. Iowa Agric. Rept. 1864 (1865), 226–254. 1865.1

Pew, *John J.* The fishing industry. Gloucester, 1901 (Century Celebration Publ.) 1901.1

Peyerl, *Theodor.* Gesunde und kranke Fische. Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 133–135; 145–147; 155–158. 1916.1

Peyréga, *E.* Sur la perméabilité osmotique de la coque des œufs de sélaciens (Note préliminaire) Bull. Soc. Zool. France, 1914, **39,** 211–214. fig. 1914.1
Passage osmotique des sels constaté.

Peyrer, *Carl.* Fischereibetrieb und Fischereirecht in Oesterreich. Wien, 1874. iii, 159 p. 8°. 1874.1

—— Fisheries and fishery laws in Austria and of the world in general. Rept. U. S. Fish Comm. 1873–75 (1876), **3,** 571–679. 1876.1

Peyrl, *Theodor.* Der Schleierfisch und seine Zucht im Zimmeraquarium. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 217–219; 234–236. fig. 1910.1

Peyron, *S.* De la pêche de la sardine [*Clupea pilchardus*] et des industries qui s'y rattachent. Quimperlé. 1864. 8°. 1864.1

Peyronie, *Gauthier de la* (*translator*) Voyage en Islande, fait par ordre de S. M. Danoise, contenant des observations sur les mœurs et usages des habitans; une description des lacs, rivières, etc., des animaux, poissons et insectes; traduit du danois par Gauthier de la Peyronie. 5 vols. Paris, 1802. *See* Olafsen, E., 1774.1, *supra.*

Pfeffer, *Georg Johann* [1854 —] Ueber die Schiefheit der Pleuronectiden. Abh. Ges. Hamburg, 1886, **9,** 1. Heft. 8 p. 1886.1

—— Uebersicht der von Herrn Dr. Franz Stuhlmann in Aegypten, auf Zanzibar und dem gegenüberliegenden Festlande gesammelten Reptilien, Amphibien, Fische, Mollusken und Krebse. Jahrb. Wiss. Anstalt Hamburg, 1889, **6,** pt. 2, 1–36. 1889.1
Fishes, p. 13–23.

—— Die Fauna der Insel Jeretik, Port Wladimir, an der Murman-küste, nach den Sammlungen des Herrn Kapitän Horn. I. Die Reptilien, Amphibien, Fische, Mollusken, Brachiopoden, Krebse, Pantopoden und Echinodermen. Jahrb. Wiss. Anstalt Hamburg, 1890, **7,** 63–96. 1890.1
Fishes, p. 74–76.

—— Die niedere Tierwelt des Antarktischen Ufergebietes (In Die internationale Polarforschung 1882–1883. Die Deutschen Expeditionen und ihrer Ergebnisse. Vol. ii. Beschreibende Naturwissenschaften in einzelnen Abhandlungen, herausgegeben von G.

Neumayer, p. 455–574. Hamburg, 1890) 1890.2

Fische, p. 464–467; 488–490; 520–524.

—— Versuch über die erdgeschichtliche Entwicklung der jetzigen Verbreitungsverhältnisse unserer Tierwelt. Hamburg, 1891. 1891.1

—— Fische (In Stuhlmann, F. L. Zoologische Ergebnisse einer in den Jahren 1888–90 . . . von . . . F. Stuhlmann in die Küstengebiete von Ost-Afrika unternommenen Reise. 2 vols. Berlin 1893 (1901). 49 p. illust. 8°) 1893.1

—— Ostafrikanische Fische gesammelt von Herrn Dr. F. Stuhlmann im Jahre 1888 und 1889. Jahrb. Wiss. Anstalt Hamburg, 1893, **10**, 131–177. 3 pls. 1893.2

—— Fische (In Möbius, K., Deutsch-Ost-Afrika, vol. iii, 72 p. 24 figs. Hamburg & Berlin, 1894. 8°) 1894.1

Another edition of the same. Berlin, 1896. Contains a bibliography, p. xvi–xviii.

—— Ueber die Wanderung des Auges bei den Plattfischen. Verh. Deutsch. Zool. Ges., 1894, **3**, 83. 1894.2

—— Zur Faunistik Deutsch-Ost-Afrikas. 2. Fische. Arch. Naturgesch., 1897, 63. Jahrg., 60–62. 1897.1

—— Die zoogeographischen Beziehungen Südamerikas, betrachtet an den Klassen der Reptilien, Amphibien und Fische. Zool. Jahrb. Suppl. 1905, **8** (*Festschrift Möbius*), 407–442. 1905.1

Fische, p. 432–442.

—— Einige Bemerkungen zur chromatischen Funktion der Tiere. Nat. Wochenschr., 1910, **25**, 154–156. 1910.1

Pfeiffer, *Franz* (*editor*) Das Buch der Natur von Konrad von Megenberg, die erste Naturgeschichte in deutscher Sprache. Stuttgart, 1861. lxii, 808 p. 8°. 1861.1

III. Von den Tiern in ainer Gemain. D. Von den Vischen, p. 244–259.
There is also a modern German rendering, by Hugo Schulz (1897), of this work of Konrad of Megenberg, which is essentially a popular version of "De natura rerum" of Thomas of Cantimpré.

Pfeiffer, *Karl.* Der Cascarob-King der Antillen [Polycentrus] Prakt. Zierfischzüchter, 1910, 49–51. fig. 1910.1

—— Die Pflege und Zucht der Flugbarbe. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 559–560. 1910.2

Pflüger, *Eduard Friedrich Wilhelm* [1828 —] Beiträge zur Lehre von der Respiration. I. 4. Abt. Die Phosphorescenz der lebendigen Organismen und ihre Bedeutung für die Principien der Respiration. Arch. Gesam. Physiol., 1875, **10**, 275–300. 1875.1

—— Ueber die Phosphorescenz verwesender Organismen. Arch. Gesam. Physiol., 1875, **11**, 222–263. Abstract in Monthly Microsc. Journ., **15**, 270–271. 1875.2

Pflugk, *Albert von.* Die Fixierung der Wirbeltierlinsen insbesondere der Linse des neugeborenen Menschen. Klin. Monatsbl. Augenheilk., 1909, 47. Jahrg., **8**, 1–14. pl. & 6 figs. 1909.1

—— Die Akkommodation der Cephalopoden und Fische. Ber. Versam. Ophthalm. Ges., Wiesbaden, 1911, **36**, 54–57. pl. 1911.1

Pfüller, *Albert.* Beiträge zur Kenntnis der Seitensinnesorgane und Kopfanatomie der Macruriden. Jena. Zeitschr. Nat., 1914, **52**, 1–134. 2 pls. & 38 figs. 1914.1

Physiologische Erörterungen. Perception von Druckreizen. Occipitalorgan. Wurmparasit in Seitenkanälen und Muskulatur.

Pfundheller, *J.* Ueber den Hechtfang. Oesterr.-ungar. Fischerei Zeitg., 1880, 357–359. 1880.1

Pfyffer, *C.* Fischerei. St. Gallen & Bern, 1858. 1 p. 8°. 1858.1

Pfyffer, *L.* Referat über Prämien betreffend Fischfrevel und erlegtes Raubwild. Zürich, 1885. 1 p. 4°. 1885.1

Phelp, —— Washington described. Washington, 1861. 1861.1

Ichthyology, by T. N. Gill, p. 30–32. *See also* Keim, De B. R. Washington and its environs. 1861 [?]

Phelps, *Jessie.* The origin and development of the adhesive organ of *Amia calva.* 1. Rept. Michigan Acad. Sci., 1900, 137–139. 1900.1

Phelps, *Jessie,* & **Reighard,** *Jacob.* *See* **Reighard & Phelps.**

Phelps, *S.* A treatise on the importance of extending the British fisheries, containing a description of the Iceland fisheries and of the Newfoundland fishery and colony, etc. London, 1818. 8°. 1818.1

Philip, *Greta.* On relics in the Swedish fauna. Bull. Geol. Inst. Univ. Upsala, 1910, **9**, 129–145. 1910.1

Philipeaux, *Jean Marie.* Expériences démontrant que les nageoires des poissons ne se régénèrent qu'à la condition qu'on laisse au moins sur place leur partie basilaire. C. R. Acad. Sci. Paris, 1869, **68**, 669–670. — Ann. Mag. Nat. Hist., 4. ser. **4**, 294–295. 1869.1

Philipeaux, *Jean Marie,* & **Vulpian,** *Edme Félix Alfred.* Détermination des parties qui constituent l'encéphale des poissons. C. R. Acad. Sci. Paris, 1852, **34**, 537–542. 1852.1

—— Mémoire sur la structure de l'encéphale des poissons cartilagineux et sur l'origine des nerfs crâniens chez ces poissons, accompagné de planches explicatives (Extrait par les auteurs) C. R. Acad. Sci. Paris, 1853, **37**, 341–344. 1853.1

—— Sur la signification anatomique des bandelettes contenues dans les lobes optiques des poissons osseux et auxquelles plusieurs anatomistes ont donné le nom de voûte à trois piliers. Bull. Soc. Philom. Paris, 1865, 6. sér. **2**, 86–90. 1865.1

Philippi, *Emil* [1871–1910] Ueber *Ischyodus suevicus,* nov. sp. Ein Beitrag zur Kenntniss der fossilen Holocephalen. Palæontographica, 1897, **44**, 1–10. 2 pls. 1897.1

Philippi, *Emil,* **Jaekel,** *Otto,* **Volz,** *Wilhelm,* & **Frech,** *Fritz.* Die Wirbelthiere der Trias (In Lethæa geognostica, vol. ii, pt. 1, no. 1, 9–21. Stuttgart, 1903) 1903.1

Philippi, *Erich.* Ein neuer Fall von Arrhenoidie. Sitzber. Ges. Naturf. Freunde Berlin, 1904, 196–197. 1904.1

Assumption by one sex of secondary sexual characteristics of the other in Glaridichthys.

—— Kurzer Beitrag zur Kenntnis der Teleostiergenera Glaridichthys Garman und Cnesterodon Garman (Familie Cyprinodontidæ s. Pœciliidæ) Sitzber. Ges. Naturf. Freunde Berlin, 1906, 229–232. 3 figs. 1906.1

—— Ein neuer, deszendenztheoretisch interessanter Fall von Viviparität bei einem Teleostier. Sitzber. Ges. Naturf. Freunde Berlin, 1906, 235–237. 1906.2

Characodon lateralis Günther.

—— "Spermatophoren" bei Fischen. Verh. 17. Vers. Deutsch. Zool. Ges., 1907, 105–108. fig. 1907.1

—— Fortpflanzungsgeschichte der viviparen Teleostier *Glaridichthys januarius* und *G. decem-maculatus* in ihrem Einfluss auf Lebensweise, makroskopische und mikroskopische Anatomie. Zool. Jahrb. (*Abth. Anat.*), 1908, **27**, 1–94. 7 pls. & 16 figs. 1908.1

—— Fortpflanzungsgeschichte zweier viviparer Cyprinodontiden. Inaug. Dissert. Berlin, 1908. 49 p. 1908.2

Philippi, *Erich,* **Weltner,** *W.,* & **Wandolleck,** *Benno. See* **Wandolleck, Philippi** & **Weltner.**

Philippi, *Rudolph Amandus* [1808–1904] For biographical notice, *see* Hicken, Cristóbal M. Doctor Rudolfo Amando Philippi. Breves apuntes biograficos. Anal. Soc. Cient. Argentina, 1904, **58**, 145–151.

—— *Tornatella abbreviata, Otodus mitis, Otodus catticus* und *Myliobatis testæ.* Palæontographica, 1846–1851, **1**, 23–25. pl. & figs. 1846.1

—— Ueber einige chilenische Vögel und Fische [Genypterus Ph., *Raja scobina* Ph., Rhynchobatis] Arch. Naturgesch., 1857, 23. Jahrg., 262–272. 1857.1

—— Beschreibung neuer Wirbelthiere aus Chile. Arch. Naturgesch., 1858, 24. Jahrg., **1**, 303–311. 1858.1

—— Kurze Nachricht über ein paar chilenische Fische. Arch. Naturgesch., 1863, 29. Jahrg., 207–212. 1863.1

—— [Remarque synonymique à la description de *Novarchus sulcatus*] Rev. Mag. Zool., 1863, 2. sér. **15**, 272–274. 1863.2

—— Elementos de historia natural. Santiago de Chile, 1864. 1864.1

There are four later editions, published in 1872, 1877, 1885 and 1893, respectively.

—— Ueber die chilenische Anguilla [*Petromyzon acutidens*] Arch. Naturgesch., 1865, 31. Jahrg., **1**, 107–109. — Ann. Mag. Nat. Hist., 1865, 3. ser. **16**, 221–222. 1865.1

—— Ueber die chilenischen Flussfische. Monatsber. Akad. Wiss. Berlin, 1866, 708–717. 1866.1

—— Remarks on the river-fishes of Chile (Translated by Arthur W. E. O'Shaughnessy) Ann. Mag. Nat. Hist., 1867, 3. ser. **19**, 427–435. 1867.1

—— Ueber eine neue Art Trachypterus aus dem chilenischen Meere. Arch. Naturgesch., 1874, 40. Jahrg., **1**, 117–121. 1 pl. 1874.1

—— *Carcharodon gigas,* eine neue Art aus der Tertiärformation Chiles. Zeitschr. Gesam. Naturw., 1878, **51** (3. ser. **3**) 685–686. pl. 1878.1

—— Ueber einige neue chilenische Thiere. i. *Tænioptera australis* Ph. & Ldb. ii. *Phœnicopterus andinus* Ph. iii. *Spheniscus trifasciatus* Ldb., und *Spheniscus humboldti* Meyen. iv. *Clupea* oder *Alausa advena* Ph. Arch. Naturgesch., 1879, 45. Jahrg., 158–164. 1879.1

—— Los fósiles terciarios i cuartarios de Chile. Santiago de Chile, 1887. 256 p. 58 pls. 4°. 1887.1

—— Historia natural. Sobre los tiburones y algunos otros peces de Chile. Anal. Univ. Chile, 1887, **71**, 1–42. pls. Also separate; Santiago de Chili, 1887. 42 p. 8 pls. 8°. 1887.2

—— Vorläufige Nachricht über die chilenischen Seeschildkröten und einige Fische der chilenischen Küste. Zool. Garten, 1887, **28**, 84–88. 1887.3

—— Algunos peces de Chile. Anal. Mus. Nac. Chile, 1892, sec. 1 (*Zool.*) 16 p. 6 pls. 1892.1

—— Abbildung und Beschreibung einiger chilenischer Fische. Leipzig, 1893. 20 p. 6 pls. 4°. 1893.1

—— Die chilenischen Arten von Galaxias. Santiago de Chile, 1895. 1895.1

—— Los fosiles secondarios de Chile. Santiago de Chile, 1899. 104 p. 42 pls. 4°. 1899.1

—— Descripción de cinco nuevas especies chilenas del ordre de los plagióstomos. Anal. Univ. Chile, 1902, **109**, 303–315. pl. Abstract in Rev. Chil. Nat. Hist., 1902, **6**, 59. 1902.1

Philippsen, *H.* Fische als Wetterpropheten. Prometheus, 1913, 25. Jahrg., 142–143. 1913.1

Philips, *Barnet.* The Hudson river salmon. Forest & Stream, 1873, **2**, 40. 1873.1

—— The carp as a food fish. Forest & Stream, 1874, **2**, 121. 1874.1

—— Fish-culture, etc. Forest & Stream, 1874, **3**, 132; 148; 180; 228. 1874.2

Notes on fish-culture in Indiana, Connecticut, Maine, Newfoundland, etc.

—— The introduction of the California salmon into Australia. Forest & Stream, 1874, **2**, 229. 1874.3

—— Land-locked salmon. Forest & Stream, 1874, **3**, 276. 1874.4

—— Michigan grayling. Forest & Stream, 1874, **3**, 4. 1874.5

—— The Michigan grayling (*Thymallus tricolor*) Forest & Stream, 1874, **2**, 265. 1874.6

—— Newfoundland — its beasts, birds and fishes. Forest & Stream, 1874, **2**, 232. 1874.7

—— A rare fish — the tarpum. Forest & Stream, 1874, **2**, 389. 1874.8

—— Shad in Ohio rivers. Forest & Stream, 1874, **2**, 136. 1874.9

—— Whitefish breeding. Forest & Stream, 1874, **3**, 244. 1874.10

—— Why shad have not been found above the Holyoke dam. Forest & Stream, 1874, **2**, 356. 1874.11

—— Distribution of fish. Forest & Stream, 1875, **4**, 4. 1875.1

—— Fish-culture. Forest & Stream, 1875, **4**, 230. 1875.2

—— Fish-culture in Illinois. Forest & Stream, 1875, **4**, 4. 1875.3

—— Fish-culture in Virginia. Forest & Stream, 1875, **4**, 4. 1875.4

—— The fisheries of Michigan. Forest & Stream, 1875, **3**, 372. 1875.5

—— New Hampshire fish-culture. Forest & Stream, 1875, **4**, 325. 1875.6

—— Salmon culture in Canada. Forest & Stream, 1875, **4**, 198. 1875.7

—— Salmon fisheries on the Columbia river. Rod & Gun, 1876, **8**, 131–132. 2 figs. 1876.1

—— More about McLeod river trout. Forest & Stream, 1877, **9**, 247. 1877.1

—— The value of the different kinds of fish as food. Trans. Amer. Fish Cult. Assoc., 6. meet., 1877, 88–95. 1877.2

Philips, *B.*

—— Another salmon in the Delaware. Forest & Stream, 1878, **10**, 195. 1878.1

—— Beneficial results of salmon hatching on the Sacramento river. Forest & Stream, 1878, **10**, 18. 1878.2

—— Can eels be bred in Ohio? Forest & Stream, 1878, **9**, 469. 1878.3

—— Confusion in the names of some of the American fishes of the herring family. Forest & Stream, 1878, **10**, 82. 1878.4

—— The exhibition of fish preparations at the centennial and kindred topics. Trans. Amer. Fisheries Soc. 1877 (1878), 17–26. 1878.5

—— Fish-culture in Ohio. Forest & Stream, 1878, **9**, 488. 1878.6

—— Fish for the Susquehanna. Forest & Stream, 1878, **10**, 195. 1878.7

—— Herring, shad and eels in the Potomac. Forest & Stream, 1878, **10**, 462. 1878.8

—— The nonsense about shad. Forest & Stream, 1878, **10**, 238. 1878.9

—— The possible appearance of salmon in the Mississippi. Forest & Stream, 1878, **10**, 54. 1878.10

—— Salmon in the Connecticut. Forest & Stream, 1878, **10**, 255; 279. 1878.11

—— Salmon in the Mississippi. Forest & Stream, 1878, **10**, 134. 1878.12

—— The Scotch herring fishery. Forest & Stream, 1878, **11**, 96. 1878.13

—— Sharks in New York's waters. Forest & Stream, 1878, **11**, 32–33. 1878.14

—— Trout hybrids. Forest & Stream, 1878, **10**, 255. 1878.15

—— Boiling fish with the scales on — a new fish. Chicago Field, 1879, **11**, 4. 1879.1

—— Prehistoric fish-hooks. Trans. Amer. Fisheries Soc. 1879 (1880), 51–55. 1880.1

—— General statistics. Trans. Amer. Fisheries Soc. 1881 (1882), 61–64. 1882.1

—— Early catch of mackerel. Bull. U. S. Fish Comm. 1883, **3**, 280. 1883.1

—— Holland carp put into Hudson river about 1830; letter to Prof. S. F. Baird. Bull. U. S. Fish Comm. 1882 (1883), **2**, 25. 1883.2

—— The primitive fish-hook (In Halieutics by modern writers, vol. iii, art. 15 [New York] 1883) Abstract in Century, 1883, **25**, 898–904. 1883.3

—— A stray cod up the Hudson. Bull. U. S. Fish Comm. 1883, **3**, 416. 1883.4

—— Notes of a trip in the gulf of Mexico. Bull. U. S. Fish Comm. 1884, **4**, 144. 1884.1

—— Some notes on the mullet fisheries. Bull. U. S. Fish Comm. 1884, **4**, 135–137. 1884.2

Philippsen, —— Die Rochen der Nordsee. Nerthus, 1903, 5. Jahrg., 700–702; 716–719. 7 figs. 1903.1

Philippson, *M.* L'éclosion des œufs de poissons, est-elle due à un phénomène osmotique? Ann. Soc. Zool. Malacol. Belgique, 1912, **46**, 186–188. 1912.1

Phillip, *Arthur* [1738–1814] The voyage of Governor Phillip to Botany bay. London, 1789. figs. 4°. 1789.1
French translation, Paris, 1791. 4°.

Phillips, *Drury McN.*, & **Udden,** *J. A.* *See* **Udden & Phillips.**

Phillips, *Eben B.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 401. 1879.1

Phillips, *Ernest.* Trout in lakes and reservoirs. London & New York, 1914. viii, 136 p. 8 illust. 1914.1

Phillips, *Everett F.* A review of parthenogenesis. Proc. Amer. Phil. Soc., 1903, **42**, 275–345. 1903.1

Phillips, *John* [1800–1874] Fossil fishes (In his Treatise on geology, vol. i, 86–91; 254–255. 3 figs. London, 1837–39. 8°) 1837.1

—— The Malvern hills, compared with the Palæozoic districts of Abberley, Woolhope, May hill, Tortworth, and Usk. Mem. Geol. Surv. Great Britain, 1848, **2**, 178; 192; 226. 1848.1

—— Life on the earth; its origin and succession. Cambridge, 1860. 224 p. pl. 8°. 1860.1

Phillips, *R. J.* King fish at Corson's inlet, N. J. Copeia, 1914, no. 9, 3–4. 1914.1

Phillips, *R. J.*, & **Fowler,** *H. W.* *See* **Fowler & Phillips.**

Philo-ichthyos (*pseudon.*) The natural and economic history of the Salmonidæ, geographical distribution and artificial culture. Forest & Stream, 1876, **3**, 68–69. *Ibid.*, **4**, 106. *Ibid.*, **5**, 116. *Ibid.*, **6**, 131. *Ibid.*, **7**, 147. *Ibid.*, **8**, 164. *Ibid.*, 1877, **9**, 179. 1876.1

Phinney, *Elihu.* Fish-culture in Otsego lake. Chicago Field, 1880, **13**, 68. 1880.1

—— Fish in Otsego lake. Chicago Field, 1880, **14**, 263. 1880.2

—— Smelts for Otsego lake, N. Y. Chicago Field, 1880, **13**, 109. 1880.3

—— Successful fish-culture and splendid fishing. Chicago Field, 1880, **13**, 52. 1880.4

—— Successful fish-culture at Cooperstown, N. Y. Chicago Field, 1880, **12**, 388. 1880.5

Phipps, *Constantine John* [1744–1792] A voyage towards the North Pole undertaken . . . 1773. London, 1774. viii, 253 p. 11 pls. 4°. 1774.1

The appendix contains a description of the animals and plants seen.

Phipson, *Emma.* The animal-lore of Shakspeare's time, including quadrupeds, birds, reptiles, fish and insects. London, 1883. 476 p. 8°. 1883.1

Chapters xiv–xvi deal with fishes.

Phipson, *Thomas Lambe* [1833–1908] Sur la matière phosphorescente de la raie. C. R. Acad. Sci. Paris, 1860, **51**, 541–542. 1860.1

—— Les raies et leur œufs. Canadian Naturalist, 1874, **6**, 370–374. 1874.1

Phisalix, *C.* Structure et texture de la rate chez l'*Anguilla communis*. C. R. Acad. Sci. Paris, 1883, **97**, 190–192. 1883.1

—— Recherches sur l'anatomie et la physiologie de la rate chez les ichthyopsidés. Arch. Zool. Exper. Gén., 1885, 2. sér. **3**, 369–464. 5 pls. Extract in Rev. Scient., 2. sér. **36**, 368–371. Also separate; Paris, 1885. 96 p. 5 pls. 8°. 1885.1

—— Propriétés immunisantes du sérum d'anguille contre le venin de vipère. Bull. Mus. Hist. Nat. Paris, 1896, **2**, 386–388. — C. R. Mém. Soc. Biol. Paris, 1896, 10. sér. **3**, 1128–1130. 1896.1

—— Expériences sur le venin des vives (*Trachinus vipera* et *T. draco*) Bull. Mus. Hist. Nat. Paris, 1899, **5**, 256–258. 1899.1

—— Rôle de la rate dans la formation des hématies chez les vertébrés inférieurs. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 4–5. 1902.1

—— Les animaux venimeux. La Nature, 1905, **34**, pt. 1, 70–74. 5 figs. 1905.1

Phisalix, *M.* Sur l'indépendance des propriétés toxiques et des propriétés vaccinantes dans la sécrétion cutanée muqueuse des batraciens et de quelques poissons. C. R. Acad. Sci. Paris, 1913, **157**, 1160–1163. 1913.1

Piana, *Gian Pietro* [1852 —] Beobachtungen über das Vorkommen des Tetracotylus *Percæ fluviatilis.* Allgem. Fischerei Zeitg., 1898, **23**, 396–397. 1898.1

Picaglia, *L.* Pesci del mar Rosso pescati nella campagna idrografica della regia nave "Scilla" nel 1891–92; coll' aggiunta delle specie del mar Rosso e del golfo di Aden, donate all'istituto zoologico della R. Università di Modena dal medico di 1. classe nella R. Marina, Dott. Vincenzo Ragazzi e dal tenente di vascello Paolo Parenti negli anni 1883–94. Atti Soc. Nat. Modena, 1894, 3. ser. **13**, 22–40. 1894.1

—— Note ittiologiche [sull'ittiofauna del Modenese] Atti Soc. Nat. Modena, 1907, 4. ser. **8**, 55–58. 1907.1

Picard, ——, & **Gréhant,** *Nestor.* See **Gréhant & Picard.**

Piccard, *Jules.* Ueber Protamin, Guanin und Sarkin, als Bestandtheile des Lachssperma. Ber. Deutsch. Chem. Ges. Berlin, 1874, **7**, 1714–1719. 1874.1

Pickard-Cambridge, *Frederick.* The giant goby (*Gobius capito* C. and V.) Zoologist, 1903, 4. ser. **7**, 429. pl. 1903.1

—— On the occurrence of *Gobius capito* C. and V., in Cornwall. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 584–592. pl. 1903.2

Pickard-Cambridge, *F.*

—— The red snake-fish (*Cepola rubescens* Linn.) in Dorset. Zoologist, 1904, 4. ser. **8**, 77. 1904.1

Pickering, *Charles* [1805–1878] Notes on Gobiesox found 40 feet from water in Peru, and Periopthalmus, hopping in the manner of frogs on the mud. Proc. Boston Soc. Nat. Hist. 1861–62 (1862), **8**, 60. 1862.1

—— Capture of a specimen of Amphioxus near Sulu islands. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 347. 1865.1

Pickering, *William.* Bibliotheca piscatoria; a catalogue of books upon angling. London, 1836. 40 p. 8°. 1836.1

Originally published as an appendix to Thomas Boosey's "Piscatorial reminiscences," London, 1835. It is an enlargement of the earliest printed list of angling books, that compiled by Sir Henry Ellis and published in 1811.

Sir Henry's list comprises 75 titles, and Pickering's 180. In the "Bibliotheca piscatoria" of Westwood and Satchell, 1883, references are given to 3158 editions and reprints of 2148 distinct works.

See also references in the present Bibliography under Manley, J. J., 1877.1, Marston, R. B., 1901.1, and Westwood & Satchell.

Pickles, *Harold.* A list of the mammals, reptiles, amphibians and fishes in the parish of Halifax. Halifax Natural., 1902, **7**, 95–96. 1902.1

Picqué, *R.* Recherches sur la structure et le développement du pancréas chez Petromyzon. Mém. Soc. Zool. Paris, 1913, **26**, 5–56. — Bull. Acad. Roy. Bruxelles, 1913, 294–309. pls. 1913.1

Pictet, *Arnold.* Contribution à l'étude histologique du tube digestif des poissons cyprinoïdes. Inaug. Dissert. Rev. Suisse Zool., 1909, **17**, 1–78. 2 pls. 1909.1

—— Histologie de la muqueuse buccale et intestinale des poissons cyprinoïdes (*Leuciscus rutilus, Barbus fluviatilis, Cyprinus carpio, Carassius auratus* et *Tinca vulgaris*) C. R. Soc. Phys. Hist. Nat., Genève, 1909, **26**, 35–38. 1909.2

Pictet, *François Jules* [1809–1872] Traité élémentaire de paléontologie, ou histoire naturelle des animaux fossiles, etc. 4 vols. Genève & Paris, 1844–46. illust. 8°. 1844.1

The same. 2. ed. Paris, 1853–57. 8° & 4°.

—— Description de quelques poissons fossiles du mont Liban (*Beryx vexillifer, Pagellus libanicus, Pycnosterinx discoïdes, Petalopterix syriacus, Mesogaster gracilis, Osmeroides megapterus,* etc.) Mém. Soc. Phys. Hist. Nat. Genève, 1849, **12**, 277–334. 1849.1

—— Matériaux pour la paléontologie suisse, ou recueil de monographies sur les fossiles du Jura et des Alpes. 6 séries in 7 vols. Genève, Bâle & Lyon, 1854–73. 4°. 1854.1

Sér. ii, no. 1, Description des fossiles contenus dans le terrain Néocomien des Voirons, par F. J. Pictet et P. de Loriol. 1858 [Description des poissons fossiles du terrain Néocomien des Voirons, par F. J. Pictet, pt. 3, 54 p. 7 pls.]

Sér. ii, no. 2, Description des fossiles du terrain Crétacé des environs de Sainte-Croix, par F. J. Pictet et G. Campiche. 1858–60 [Description des fossiles, par F. J. Pictet et G. Campiche, pt. 2, 380 p. 46 pls.]

Sér. iii, no. 1, Description de quelques débris de reptiles et poissons fossiles trouvés dans l'étage Jurassique supérieur (Virgulien) du Jura Neuchâtelois, par F. J. Pictet et A. Jaccard. 1860 [Description des fossiles, par F. J. Pictet, pt, 2, 88 p. 20 pls.]

Sér. iii, no. 2, Description des fossiles du terrain Crétacé des environs de Sainte-Croix, par F. J. Pictet et G. Campiche. 1861–64. 752 p. 55 pls.

—— Notice sur les poissons des terrains Crétacés de la Suisse et de la Savoie. Arch. Sci. Phys. Nat., Genève, 1858, **1**, 228–241. 1858.1

—— Note sur une dent de l'étage Aptien des environs d'Apt, appartenant à un Notidanus non décrit. Ann. Soc. Litt. Sci. Apt 1863–64 (1865), **1**, 67–70. fig. 1865.1

Pictet, *François Jules,* & **Humbert,** *A.* Nouvelles recherches sur les poissons fossiles du mont Liban. Arch. Sci. Phys. Nat., Genève, 1866, n. s. **26**, 117–133. Abstract in Neues Jahrb. Mineral., 1867, 238–242. Also separate; Genève & Paris, 1866. 19 p. 8°. 1866.1

Elasmobranchs and the following-named groups of teleosts are treated: Percoidei, Chromidæ, Carangidæ, Sparoidei, Sphyrænoidei, Gobioidei, Halecoidei, Siluroidei and Hoplopleuridæ.

—— Recent researches on the fossil fishes of Mount Lebanon [translated by A. O'Shaughnessy] Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 237–247. Notice in Geol. Mag., **4**, 72–73. 1866.2

Pictet, *François Jules,* & **Jaccard,** *Samuel Auguste.* Description de quelques débris de reptiles et poissons fossiles trouvés dans l'étage Jurassique supérieur (virgulien) du Jura Neuchâtelois. Genève, 1860. 88 p. 19 pls. 1860.1

Also published as part of "Matériaux pour la paléontologie suisse" par F. J. Pictet. 1854–73.

Pictet, *F. J.*, & **Loriol,** *Perceval de.* Description des fossiles du terrain Néocomien des Voirons. Genève, 1859. 54 p. 15 pls. 4°. 1859.1

Also published as part of "Matériaux pour la paléontologie suisse," par F. J. Pictet. 1854–73.

Pictet, *Raoul.* De l'emploi méthodique des basses températures en biologie. C. R. Trav. Soc. Helvét. Sci. Nat., 76. sess., 1893, 5–27. 1893.1

Les poissons d'étangs d'eau douce peuvent être complètement gelés, puis degelés, sans mourir.

Piddington, *Henry.* Notice of an extraordinary fish [Squalus] Journ. Asiat. Soc. Bengal, 1835, **4**, 218–222. 1835.1

Pidgeon, *Dan.* Hermaphroditism in the herring. Nature, 1898, **57**, no. 1473, 271. 1898.1

Pieper, *Adolph.* Zum Fang der Fischräuber. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 35. 1878.1

Piepmeyer, *L. W.* Report on the operations of the United States Fish Commission steamer "Fish Hawk" in shad hatching on the Delaware river, season of 1885. Bull. U. S. Fish Comm. 1885, **5**, 395–399. 1885.1

Pierce, *H. D.* The spawning of bluefish. An opinion of the cause of mortality of fish in the gulf of Mexico. Bull. U. S. Fish Comm. 1882 (1883), **3**, 332. 1883.1

—— Notes on the bluefish; mortality of Florida fishes. Bull. U. S. Fish Comm. 1884, **4**, 263–266. 1884.1

Pierce, *James.* Account of the geology, mineralogy, scenery, etc. of the secondary region of New York and New Jersey, and the adjacent regions. Amer. Journ. Sci., 1820, **2**, 181–199. 1820.1

Fish fauna of Rockland lake, N. Y., p. 186.

Pieri, *J. B.* Recherches physiologiques sur la respiration des poissons (*Ammodytes tobianus*) C. R. Acad. Sci. Paris, 1896, **122**, 252–254. Abstract in Rev. Scient., 4. sér. **5**, no. 8, 248. 1896.1

Piéron, *Henri.* Quelques observations sur les mœurs du *Blennius ocellaris* L. Bull. Mus. Hist. Nat. Paris, 1914, 13–15. 1914.1

Piers, *Harry.* Studies in the Provincial museum. 1. Fishes. 2. Fish development. Proc. Trans. Nov. Scotian Inst. Nat. Sci., 1890, **7**, pt. 4, 95–99. 1890.1

—— Notes on Nova Scotian zoology. No. 2. Proc. Trans. Nov. Scotian Inst. Nat. Sci., 1892, **8**, pt. 2, 175–184. 1892.1

—— Observations on a fish (*Chylomycterus schœpfi*) new to the fauna of Nova Scotia. Proc. Trans. Nov. Scotian Inst. Nat. Sci., 1899, **10**, pt. 1, 110–111. 1899.1

Pierson, *C. J.*, & **Meek,** *Seth Eugene. See* **Meek & Pierson.**

Piesbergen, *F.* Die Ekto- und Entoparasiten, von welchen die in der Umgebung von Tübingen lebenden Fische bewohnt werden. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1886, **42**, 73–88. pl. 1886.1

Pietravalle, *Nicola.* Contribuzione allo studio delle specie europee del genere Squalius Bp. Boll. Soc. Zool. Ital., 1908, 2. ser. **9**, 225–243; 328–334. 1908.1

Pietschmann, *Viktor.* Ichthyologische Ergebnisse einer Reise nach Island, an die atlantische Küste von Marokko und in die westliche Hälfte des Mittelmeeres. Ann. K. K. Hofmuseum, Wien, 1906, **21**, 72–148. 2 pls. & 7 figs. 1906.1

—— Ichthyologische Ergebnisse einer Reise ins Barentsmeer. Zwei stark variante Exemplare von *Antennarius tridens* mit Bemerkungen über die Variabilität von Antennarius. Ann. K. K. Hofmuseum, Wien, 1907–08, **22**, 297–307. 1907.1

—— Zwei neue Selachier aus Japan. Anz. Akad. Wiss. Wien, 1907, **44**, 394–396. 1907.2

—— Der gegenwärtige Stand unserer Kenntnisse in der Aalfrage. Verh. Zool.-Bot. Ges. Wien, 1908, **57**, (261)–(264) 1908.1

—— Ichthyologische Ergebnisse einer Reise im Barentsmeer. Ann. Hofmuseum, Wien, 1908. 15 p. 1908.2

—— Japanische Plagiostomen. Anz. Akad. Wiss. Wien, 1908, **45**, 261. — Sitzber. Akad. Wiss. Wien, **117**, Abt. 1, 637–710. 2 pls. & 14 figs. 1908.3

—— Zur Unterscheidung der beiden europäischen Mustelus-Arten. Zool. Anz., 1908, **33**, 159–164. 5 figs. 1908.4

—— Zwei neue japanische Haifische. Anz. Akad. Wiss. Wien, 1908, **45**, 132–135. 1908.5

Pietschmann, *V.*

—— Ein neuer Hemipteronotus [*H. megapterygius*] aus Japan. Anz. Akad. Wiss. Wien, 1909, **46**, 238–239. 1909.1

—— Ueber zwei stark variante Exemplare von *Antennarius tridens* (Schlegel) mit Bemerkungen über die Variabilität von Antennarius. Ann. K. K. Hofmuseum, Wien, 1909, **23**, 1–5. pl. 1909.2

—— Ueber *Neopercis macrophthalma*, n. sp. und *Heterognathodon doederleini* Ishikawa, zwei Fische aus Formosa. Ann. K. K. Hofmuseum, Wien, 1911, **25**, 431–435. 2 figs. 1911.1

—— Eine neue Mugil-Art aus dem Schatt el Arab. Anz. Akad. Wiss. Wien, 1912, **49**, 268–270. 1912.1

—— Fische des Wiesbadener Museums. Jahrb. Ver. Natk., Wiesbaden, 1913, 170–201. 2 pls. 1913.1

—— Eine neue Glyptosternum-Art [*G. steindachneri*] aus dem Tigris. Anz. Akad. Wiss. Wien, math.-nat. Kl., 1913, 50. Jahrg., 93–95. 1913.2

—— Fische der achten "Najade"-Fahrt (Jungfischtrawlfänge) Sitzber. Akad. Wiss. Wien, math. nat. Kl., 1914, **123**, 1. Abth., 405–563. 6 pls. & 8 figs. 1914.1

Piette, *Edouard* [1827–1906] Etudes d'ethnographie préhistorique. VII. Classification des sédiments formés dans les cavernes pendant l'age du Renne. Anthropologie, Paris, 1904, **15**, 129–176. pl. & 73 figs. 1904.1

Designs of fishes engraved on stone.

Pigeot, *P.* Poissons du Crétacé des environs de Bethel. Bull. Soc. Hist. Nat. Ardennes, 1904, **11**, 27–29. 1904.2

Pighini, *Giacomo.* Sur l'origine et la formation des cellules nerveuses chez les embryons de sélaciens. Bibliogr. Anat. Nancy, 1905, **14**, 94–105. 3 figs. 1905.1

—— Sur la structure des cellules nerveuses du lobe électrique, et des terminaisons nerveuses dans l'organe électrique du *Torpedo ocellata*. Anat. Anz. 1908, **32**, 489–498. 9 figs. 1908.1

Pignatti, *Vas.* Die ichthyologische Sammlung des Gouvernements-museum in Tobolsk [Text in Russian] Ann. Musée Tabolfsk, 1910, **16**, pt. 18. 1910.1

Pigorini, *L.* Sulla tossicità dei sali d'argento nei pesci. Arch. Farm. Sper. Sci. Aff., 1907, **6**, 530–547. fig. 1907.1

Resistenza aumenta col diminuire dell' importanza dei tegumenti esterni per lo scambio respiratorio.

Piguenit, *W. C.* The salmon ponds and vicinity. New Norfolk, Tasmania, 1867. 4°. 1867.1

Pike, *Nicholas.* Notes on fishes of the ocean. Trans. Roy. Soc. Mauritius, 1873, n. s. **7**, 27–32. 1873.1

—— A spawning eel. Forest & Stream, 1880, **14**, 185. 1880.1

Pilgrim, *Henry Guy Ellock* [1875 —] Fossils of the Irrawaddy series from Rangoon. Rec. Geol. Surv. India, 1906, **33**, 157–158. 1906.1

Carcharias and Oxyrhina.

—— The vertebrate fauna of the Gaj series in the Bugti hills and the Punjab. Palæont. Indica, Calcutta, 1912, n. s. **4**, no. 2, 1–83. 30 pls. & map. 1912.1

Pilliet, *Al. H.* Sur la structure du tube digestif de quelques poissons de mer. Bull. Soc. Zool. France, 1885, **10**, 283–308. 1885.1

Sharks, rays and teleosts.

—— Contribution à l'étude des espèces portés du foie chez quelques vertébrés [*Callionymus lyra*] Journ. Anat. Physiol., Paris, 1889, **25**, 264–276. 1889.1

—— Note sur la distribution du tissu adénoïde dans le tube digestif des poissons cartilagineux. C. R. Mém. Soc. Biol. Paris, 1890, 9. sér. **2**, 593–595. 1890.1

—— Recherches sur la structure du foie des sélaciens. C. R. Mém. Soc. Biol. Paris, 1890, 9. sér. **2**, 690–694. 1890.2

—— Note sur l'estomac des pleuronectes. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 881–882. 1893.1

—— Recherches histologiques sur l'estomac des poissons osseux (pleuronectes) Journ. Anat. Physiol., 1894, **30**, 61–78. 1894.1

Pimentel, *C. A. de Souza.* Piscicoltura. Ann. Sci. Nat., 1894, **1**, 34. 1894.1

Pinart, *Alphonse Louis* [1852 —] La chasse aux animaux marins et les pêcheries chez les indigènes de la côte nord-ouest d'Amérique. Boulogne-sur-Mer, 1875. 15 p. 8°. 1875.1

Pinckney, *F. S.* The tarpon, or "silver king." New York, 1889. 12°. 1889.1

Pinkerton, *John* [1758–1826] (*editor*) A general collection of voyages and travels in all parts of the world. 17 vols. London, 1808–14. pls. 4°. 1808.1

For an extensive index of localities at which fishes are recorded, see Bosgoed's Bibliotheca Ichthyologica, 1874, p. 114–115.

Pinkus, *Félix.* Die Hirnnerven von *Protopterus annectens.* Morphol. Arbeit., 1894, **4**, 275–346. 7 pls. 1894.1

—— Ueber einen noch nicht beschriebenen Hirnnerven des *Protopterus annectens.* Vorläufige Mittheilung. Anat. Anz., 1894, **9**, 562–566. figs. 1894.2

—— Ueber den zwischen Olfactorius- und Opticusursprung das Vorderhirn (Zwischenhirn) verlassenden Hirnnerven der Dipnoer und Selachier. Arch. Anat. Physiol. (*Physiol. Abth.*), 1905 (*Suppl.*), 447–452. 1905.1

Pinochet, *Alejandro Canas.* La isla de la Mocha. Act. Soc. Scient. Chile, 1902, **12**, 55–74. 1902.1

Pintner, *Theodor.* Die Aalfrage. Schrift. Ver. Verbr. Nat. Kenntn. Wien, 1908, **48**, 117–143. 8 figs. 1908.1

Pion-Gaud, *Pierre.* L'élevage du poisson-chat (*Amiurus nebulosus*) dans les étangs du Dauphiné. Bull. Assoc. Franç. Avanc. Sci., 1904, 259. 1904.1

Pion-Gaud, *Pierre,* & **Lavauden,** *Louis.* L'acclimatation et l'élevage du poisson-chat dans les étangs du Bas-Dauphiné. C. R. Assoc. Franç. Avanc. Sci., 33. sess., 1904, pt. 2, 749–755. 1904.1

Piper, *Hans.* Die Entwicklung von Leber, Pankreas, Schwimmblase und Milz bei *Amia calva.* Anat. Anz. (Verh. Anat. Ges.), 1902, 18–25. 9 figs. 1902.1

—— Die Entwicklung von Leber, Pankreas und Milz bei den Vertebraten. Physiol. Inst. Ber., 1902, 1–95. 1902.2

—— Die Entwicklung von Magen, Duodenum, Schwimmblase, Leber, Pancreas und Milz bei *Amia calva.* Arch. Anat. Physiol. (*Anat. Abth.*), 1902, 1–78. 4 pls. & 55 figs. 1902.3

—— Berichtigung zu meinem Aufsatz: Die Entwicklung von Magen, Duodenum, Schwimmblase, Leber, Pankreas und Milz bei *Amia calva.* Arch. Anat. Entwick. (*Anat. Abth.*), 1903, 27–28. figs. 1903.1

—— Ueber das Hörvermögen der Fische. München. Med. Wochenschr., 1906, 53. Jahrg., 1785. 1906.1

Pipping, *Joseph G.* Mjölke och romm utur en och samme lake [Gadus sp.] K. Vet. Akad. Nya Handlgr. 1800, **21**, 33–35. 1800.1

—— Nachricht von einer eingesalzenen Fische, bei welchem Milch und Rogen zugleich gefunden wurde [Text in Swedish] Svenska Vet. Akad. Handl. 1800, **21**, 33–35. — Voigt's Mag., **2**, p. 664. 1800.2

Piraud, *V.* Note sur la faune de l'Isère considérée au point de vue de la capacité biogenique de ce cours d'eau aux environs de Grenoble. Ann. Univ. Grenoble, 1909, **21**, 243–249. — Trav. Labor. Piscicult. Univ. Grenoble, 1909, pt. 1. 1909.1

—— Sur la nouvelle maladie coccidienne de la tanche décrite par Elmassian. Trav. Labor. Piscicult. Univ. Grenoble, 1909, pt. 2. 1909.2

——Dossiers piscicoles des cours d'eau alpins. Monographie hydrobiologique piscicole des bassins de Roize et de Vence et des ruisseaux du St. Rynard. Trav. Labor. Piscicult. Univ. Grenoble, 1910, pt. 2. — Ann. Univ. Grenoble, 1911, **23**, no. 2, 365–391. fig. & map. 1911.1

——Dossiers piscicoles des cours d'eau alpins. Monographie hydrobiologique piscicole des cours d'eau de la partie sud du massif de Belledoune. Ann. Univ. Grenoble, 1912, **24**, no. 2, 323–358. map. 1912.1

Pirko, *Franz von.* Naturalization of American fishes in Austrian waters. Proc. 4. Intern. Fish. Congr. Washington. Bull. U. S. Fish Comm. 1908, (1910), **27**, pt. 2, 977–982. 1910.1

Pirsson, *Louis V.,* & **Schuchert,** *Charles.* A textbook of geology. Part I. Physical geology, by Louis V. Pirsson. Part II. Historical geology, by Charles Schuchert. New York, 1915. viii, 1051 p. 8°. 1915.1

Piscarius (*pseudon.*) The artificial production of fish. London, 1852. 22 p. 8°. 1852.1

Piscator (*pseudon.*) Natural history of the basse. Cabinet of Nat. Hist. Philad., 1831, **2**, 138–139. 1831.1

Refers to habits of certain percoid fishes in the vicinity of Cincinnati.

—— How to choose and how to dress fish. 2. ed. London, 1854. 12°. 1854.1

Piscator, *Lubertus.* Brief van Lubertus Piscator over de visscherij, die bij een loterij vergeleken wordt. Oorzaaken van derzelver afneemen. Wederlegging. Middelen ter verbetering op de Walvischvangst. Zie: De Koopman of bijdr. ter ophouw van Neêrlands koophandel en zeevaard. Amsterdam, 1773. 1773.1

Not seen; title and reference from Bosgoed, p. 250.

Pischel, *Richard.* Der Ursprung des christlichen Fischsymbols. Sitzber. Akad. Wiss. Berlin, phil. Cl., 1905, 506–532. 1905.1

Pitcairn, *G.* A retrospective view of the Scots fisheries; with observations and remarks; humbly suggesting the probable means of preserving and improving them. 2. ed. Edinburgh, 1787. 8°. 1787.1

Pittet, *L.* Ueber die Verteilung der Geschlechter bei den Fischen. Schweiz. Fisch.-Zeitg., 1914, 22. Jahrg., 30–34. 1914.1

Pittier, *Henri François,* & **Ward,** *M. F.* Contributions à l'histoire naturelle du pays d'en haut vaudois. Bull. Soc. Vaudoise, 1885, **21**, 111–112. 1885.1

Pittrich, *Bruno. Polyacanthus cupanus.* Natur u. Haus, 1904, **12**, 241–243. 1904.1

—— Beiträge zur Kenntnis des Laichgeschäftes von *Badis badis* (Ham. Buch.) Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 453–454. 1907.1

—— Ueber Zucht und Pflege von *Betta pugnax* (Cantor) var. *trifasciata* (Bleeker) Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 287–288; 297–299; 313–315. 3 figs. 1907.2

Pitzorno, *Marco.* Ricerche di morfologia comparata sopra le arterie succlavata ed ascellare. Selaci. Monit. Zool. Ital., Firenze, 1905, **16**, 94–103. 3 figs. 1905.1

—— Sulla struttura dei gangli simpatici nei selaci. Monit. Zool. Ital., Firenze, 1910, **21**, 53–61. 3 pls. 1910.1

—— Ulteriori studi sulla struttura dei gangli simpatici nei selaci. Monit. Zool. Ital., Firenze, 1911, **22**, no. 2, 4–9. 3 figs. 1911.1

—— Il ganglio ciliare dei selaci. Arch. Ital. Anat. Embriol., 1913, **11**, 527–535. 2 pls. 1913.1

Pixell, *Helen L. M.* On the morphology and physiology of the appendix digitiformis in elasmobranchs. Anat. Anz., 1908, **32**, 174–178. 1908.1

Pizzetta, *Jules* [1820 —] L'aquarium d'eau douce et d'eau de mer; choix, formes, préparation, salubrité, approvisonnement, plantes, etc.; introduction par A. Geoffroy Saint-Hilaire. Paris, 1872. 220 illust. 18°. 1872.1

—— La pisciculture fluviale et marine. Paris, 1878. 1878.1

—— La pisciculture fluviatile et maritime en France. Paris, 1880. viii, 472 p. 8°. 1880.1

Planander, *Laurentius Alger.* Animadversiones in classem piscium Linn. Lundæ, 1803. 24 p. 4°. 1803.1

Plant, *James.* On the upper Keuper Sandstone (included in the New Red marls) and its fossils at Leicester. Quart. Journ. Geol. Soc. London, 1856, **12**, 369–373. 2 figs. 1856.1

Plant, *John* [c. 1820–1894] The great sheatfish, *Silurus glanis,* in Loch Bad-a-Luacradh, Ross. Proc. Lit. Phil. Soc. Manchester, 1878–79, **18**, 107–110. 1878.1

—— The great sheatfish [*Silurus glanis*] Fish. Gazette, 1879, **3**, 315. 1879.1

—— The sheatfish (*Silurus glanis*) Sci. Gossip, 1879, **15**, 194. 1879.2

Plate, *Ludwig Hermann* [1862 —] Ueber Eier von *Bdellostoma bischoffii* Schneider. Sitzber. Ges. Naturf. Freunde Berlin, 1896, 16–21. figs. 1896.1

—— Ein neuer Cyclostom mit grossen normal entwickelten Augen, *Macrophthalmia chilensis* n. g., n. sp. Sitzber. Ges. Naturf. Freunde Berlin, 1897, 137–141. — Zool. Centralbl., no. 26, 897. 1897.1

—— Studien über Cyclostomen. I. Systematische Revision der Petromyzonten der südlichen Halbkugel. Zool. Jahrb. (*Suppl.*), 1902, **5**, 651–673. pl. 1902.1

—— Ueber Cyclostomen der südlichen Halbkugel. Verh. Intern. Zool. Congr. Berlin, 1902, 551–552. — Tagebl. Intern. Zool. Congr. Berlin, 1902, no. 8, 7–8. 1902.2

—— *Apogonichthys strombi*, n. sp., ein symbiotisch lebender Fisch von den Bahamas. Zool. Anz., 1908, **33**, 393–399. 2 figs. 1908.1

Plateau, *Félix Auguste Joseph* [1841—] On the vision of fishes and amphibians. Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 469–473. 1866.1

Translated from Mém. Cour. et Mém. Sav. Etrang. Acad. Roy. Bruxelles, 1866, **23**.

—— Sur la vision des poissons et des amphibies. C. R. Acad. Sci. Paris, 1866, **63**, 499–500. — Ann. Sci. Nat. (*Zool.*), 5. sér. 15–20. 1866.2

Plater, *Adam*. Opisanie hydrograficzno-statystyczne Dzwiny zachodniej, oraz ryb w niej zyjacych [Description of the west Düna river and its fishes] Wilno, 1861. 69 p. maps. 8°. 1861.1

Platner, *G.* Die erste Entwicklung befruchteter und parthenogenetischer Eier von *Liparis dispar*. Biol. Centralbl. 1888, **8**, 521–524. 1888.1

Platt, *Julia B.* The anterior head-cavities of Acanthias. Preliminary notice. Zool. Anz., 1890, **13**, 239. fig. 1890.1

—— A contribution to the morphology of the vertebrate head, based on a study of *Acanthias vulgaris*. Journ. Morphol., 1891, **5**, 79–106. 3 pls. 1891.1

—— Further contribution to the morphology of the vertebrate head. Anat. Anz., 1891, 6. Jahrg., 251–265. 15 figs. 1891.2

Scyllium, Acanthias, Batrachus.

Plattner, *Sam.* Rheinlanken und Forellenfang in Bünden. Bern, 1879. 2 p. 4°. 1879.1

Playfair, *Lyon* [1819–1898] Letter on the introduction into American waters of the two varieties of German carp. Angler's Note Book, 1884, **6**, 91–92. 1884.1

—— A foreigner's opinion of American fish-culture. Bull. U. S. Fish Comm. 1885, **5**, 367–368. 1885.1

Playfair, (*Sir*) *Robert Lambert* [1828–1899] Acanthopterygii (In Playfair & Günther. The fishes of Zanzibar, p. 1–80. 21 pls. London, 1866. 4°) 1866.1

—— The fishes of Seychelles. Proc. Zool. Soc. London, 1867, 846–872. 1867.1

—— On the fishes of Cachar. Proc. Zool. Soc. London, 1867, 14–17. 1867.2

—— On a collection of fishes from Madagascar. Proc. Zool. Soc. London, 1868, 9–12. 1868.1

22 species of teleosts are listed, two of which are new.

—— Further contributions to the ichthyology of Zanzibar; with a note by Dr. A. Günther. Proc. Zool. Soc. London, 1869, 239–241. 1869.1

—— Note on a freshwater fish from the neighbourhood of Aden: *Discognathus lamta?* Proc. Zool. Soc. London, 1870, 85–86. 1870.1

Playfair, (*Sir*) *Robert Lambert*, & **Günther,** *Albert Carl Ludwig Gotthilf*. The fishes of Zanzibar, with a list of the fishes of the whole east coast of Africa. London, 1866. 21 pls. & figs. 4°. 1866.1

Acanthopterygii, by R. L. Playfair. Pharyngognathi, etc., by A. C. L. G. Günther. The plates are lithographs by G. H. Ford; 6 of them are colored and plate 13 is used as a frontispiece.

Playfair, (*Sir*) *Robert Lambert*, & **Letourneux,** *A.* *See* **Letourneux** & **Playfair.**

Plehn, *Marianne*. Zum feineren Bau der Fischkieme. Vorläufige Mittheilung. Zool. Anz., 1901, **24**, 439–443. 5 figs. 1901.1

—— Bösartiger Kropf (Adeno-Carcinom der Thyroidea) bei Salmoniden. Allgem. Fischerei Zeitg., 1902, 117. 1902.1

—— [Die Schuppensträubung der Weissfische] Allgem. Fischerei Zeitg., 1902, no. 3. 1902.2

—— Die Rotseuche der karpfenartigen Fische. Allgem. Fischerei Zeitg., 1903, no. 11, 198–210. 1903.1

—— *Trypanoplasma cyprini*, nov. sp. Arch. Protistenkunde, Jena, 1903, **3**, 175–180. pl. 1903.2

—— Ueber den Krebs bei Salmoniden. Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 307–308. 2 figs. 1904.1

Plehn, *M.*

—— *Sanguinicola armata* und *S. inermis* (n. gen., n. sp.) n. fam. Rhynchostomida; ein entoparasitisches Turbellar im Blute von Cypriniden. Zool. Anz., 1905, **29**, 244–252. 8 figs. 1905.1

—— Ueber das Hören der Fische. Allgem. Fischerei Zeitg., 1905, 80. Jahrg., 62–66. 1905.2

—— Ueber den Geschmacksinn der Fische. Allgem. Fischerei Zeitg., 1905, 30. Jahrg., 165–169. 1905.3

—— Ueber die Drehkrankheit des Salmoniden, etc. Arch. Protistk., 1905, **5**. 1905.4

—— Drüsenzellen oder Parasiten? Anat. Anz., 1906, **29**, 152–156. 1906.1

—— Die Fische des Meeres und der Binnengewässer (In Bilderatlas des Tierreichs, herausgegeben von Kurt Lampert, pt. 4. viii, 190 p. 36 pls. Esslingen & München, 1906) 1906.2

—— Ueber den Exophthalmus bei Fischen. Allgem. Fischerei Zeitg., 1906, 31. Jahrg., 351–353. 1906.3

—— Ueber eigentümliche Drüsenzellen im Gefässystem und in anderen Organen bei Fischen. Vorläufige Mitteilung. Anat. Anz., 1906, **28**, 192–203. 8 figs. 1906.4

—— Was ist eigentlich ein Fisch? Schweiz. Fischerei Zeitg., 1907, 15. Jahrg., 154–157; 212–214. 1907.1

—— I pesci del mare e delle acque interne; con notizie sulla pesca e sulla pescicoltura in Italia per L. Scotti. Milano, 1908. 459 p. illust. 8°. 1908.1

—— Fischkrankheiten. Naturwissenschaften, 1914, 2. Jahrg., 1049–1053; 1065–1068. 5 figs. 1914.1

Plenderleath, *D.* On the teeth of fishes, and shells found in the vicinity of Reading. Phil. Mag. (Tilloch), 1813, **41**, 44–46. 1813.1

Pleskott, *Emilie.* Zur Krankheit der Fische. Isis (Russ), 1878, 3. Jahrg., 45. 1878.1

Pleyel, *Josef von.* Die Zoologie der Alten. Nat. Wochenschr., 1905, **20**, 65–72. 1905.1

Pleyte, *W.*, & others. Guide zoologique. Communications diverses sur Pays-Bas publiées à l'occasion du 3ième Congrès International de Zoologie. Leyde, Septembre 1895. Helder, 1895, viii, 170 p. illust. 8°. 1895.1

Poissons, par P. P. C. Hoek.

Plieninger, *Wilhelm Heinrich Theodor von* [1795–1879] Cyprinoiden-Zähne im Süsswasserkalk von Steinheim. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1847, 3. Jahrg., 162–163. pl. 1847.1

Tinca, Leuciscus and Cyprinus.

—— *Microlestes antiquus* und *Sargodon tomicus* in der Grenzbreccie des Keupers von Degerloch. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1847, 3. Jahrg., 164–167. pl. 1847.2

Plinius Secundus, *Caius* [23–79] Caii Plinii Secundi Historiæ naturalis libri xxxvii, cum selectis commentariis J. Harduini, etc. 10 vols. [in 11] Parisiis, 1827–1832. 1827.1

Vol. iii. Pars tertia continens zoologiam, G. Cuvier notis . . . illustratam, curante J. B. F. S. Ajasson de Grandsagne.

This edition of Pliny's Natural History is noteworthy on account of Cuvier's commentaries on the ichthological portions.

Plocq, *E.* Notes sur le martin-pêcheur. Bull. Soc. Zool. France, 1907, **32**, 37–40. 1907.1

Depends for food upon small fishes, notably *Phoxinus lævis* Ag.

Plucàr, *Ernst.* Der Fischplatz zu Triest oder Aufzählung und populäre Beschreibung der demselben aus den adriatischen Golfe zugeführten Fische und andere essbaren Meerprodukte nebst Andeutung ihrer Zubereitung als Speise. Trieste, 1846. 1846.1

Pluche, *Noël Antoine* [1688–1761] La spectacle de la nature, ou entretiens sur les particularités de l'histoire naturelle qui ont paru les plus propres à rendre les jeunes-gens curieux, etc. 9 vols. Frankfort, 1763. 12°. 1763.1

Vol. i contains a chapter on fish, and vol. iii one on fishing.

—— Spectacle de la nature; or nature displayed. Being discourses on such particulars of natural history as were thought most proper to excite the curiosity and form the minds of youth. Translated from French by S. Humphreys. 2. ed. 3 vols. London, 1785–86. pls. 8°. 1785.1

Plummer, *J. T.* List of fishes found in the vicinity of Richmond, Indiana. Proc. Boston Soc. Nat. Hist. 1848–51 (1851), **3**, 54–55. 1851.1

Plummer, *R.* Swans on the Thames and perch spawn. Fish. Gazette, 1879, **3**, 88. 1879.1

Pobowski, *Eugen.* Der Grossflosser, [*Polyacanthus viridiauratus*], seine Pflege und Zucht. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 468–469. — Erste Oesterr.-ungar. Fischerei Zeitg., 1880, 198–199. 1880.1

Poche, *Franz.* Ueber das Vorkommen zweier amerikanischer Welsgattungen in Afrika. Zool. Anz., 1901, **24**, 569–571. 1901.1

—— [Bemerkungen zu der Arbeit des Herrn Basset-Smith: A systematic description of parasitic Copepoda found on fishes; with an enumeration of the known species] Zool. Anz., 1902, **26**, 8–20. 1902.1

Fishes referred to as hosts.

—— Richtigstellung eines Gattungsnamens unter den Siluriden. Zool. Anz., 1902, **25**, 211. 1902.2

Amphilus platychir Günther.

—— Ueber das Vorkommen von *Anoplopterus platychir* (Gthr.) in Westafrika. Zool. Anz., 1902, **25**, 121–122. 1902.3

—— Einige Ergänzungen zu den Indices neuer Gattungs- und Untergattungsnamen des Zoological Record, Band XXXVIII–XLII (für 1901–1905) Zool. Anz., 1907, **31**, 705–707. 1907.1

—— Welchem Fische gebührt der Name Torpedo? Zool. Anz., 1907, **32**, 172–174. 1907.2

—— Supplement zu C. O. Waterhouse's "Index Zoologicus." Zool. Annal., 1908, **2**, 273–343. 1908.1

—— Einige Ergänzungen und Berichtigungen zu den Indices neuer Gattungs- und Untergattungsnamen des Zoological Record, Band XXXVIII–XLIII (für 1901–1906) Arch. Naturgesch. 1909, 75. Jahrg., **1**, 67–70. 1909.1

—— Ueber die Abtrennung der Selachier von den Fischen als eine eigene Klasse. Arch. Naturgesch., 1902, 77. Jahrg., **1**, 49–51. 1902.1

—— Die Klassen und höheren Gruppen des Tierreichs [Acrania, Monorrhina, Selachii und Pisces] Arch. Naturgesch., 1911, 77. Jahrg., **1**, 110–111. 1911.1

—— Ergänzungen und Berichtigungen zu den Indices neuer Gattungs- und Untergattungsnamen des Zoological Record, Bd. XXXVIII bis XLVI (für 1901–1909) Arch. Naturgesch., 1912, 77. Jahrg., Supplem. Bd. **1**, 103–106. 1912.1

See also the references cited under the names of Marschall, A. F. von, Scudder, S. H., Sharp, D., and Waterhouse, C. O., in the present work.

Pochhammer, —— Ueber den Nutzen des Meeres, des Fischfangs in den Oceanen und über den Werth neuer Fischerei-Gebiete. Zeitschr. Ges. Erdkunde, Berlin, 1866, **1**, 504–509. 1866.1

Pocock, *W. I.* Note on the sucker-fish leash (In Haddon, A. C. Hunting and fishing. Rept. Cambridge Anthropol. Exped. Torres Straits, vol. iv, p. 164–165. Cambridge, 1912) 1912.1

Pococke, *Richard* [1704–1765] Beschryving van het Oosten; uit het Engelsch door E. W. Cramerus. 3 pts. in 6 vols. Utrecht, 1778. pls. & maps. 4°. 1778.1

Fishes of the Nile, vol. i, p. 345–346.
The original English edition was published at London in 1743–45.

Poe, *W. Hutchinson.* Anticosti. The journal of a naval officer. Forest & Stream, 1873, **1**, 1–3; 17–18; 33–35; 50–51; 65–67. 1873.1

Cod-fisheries at English bay described, p. 17.
Salmon fishing, p. 34; 51.

Pölzl, *Franz.* Erfahrungen über die Laichzeit der Regenbogenforelle. Stenogr. Protok. Verh. Intern. Fisch. Kongr. Wien, 1905, 153–154. 1905.1

Poeppig, *Eduard Friedrich* [1798–1868] Reise in Chile, Peru und auf dem Amazonenstrome, etc. 2 vols. Leipzig, 1835–36. 1835.1

Poey y Aloy, *Felipe* [1799–1891] Memorias sobre la historia natural de la isla de Cuba, acompañadas de sumarios latinos y extractos en francés, etc. 2 vols. Habana, 1851–58 [–61]. illust. 4°. 1851.1

The title-page of vol. i is dated 1851, and that of vol. ii 1856–58. The work was, however, issued in 'entregas' or fascicules, those for vol. i extending over the years 1851–54, and those for vol. ii over the years 1858–61.

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—— Observations on different points of the natural history of the island of Cuba with reference to the ichthyology of the United States. Ann. Lyc. Nat. Hist. New York, 1858, **6**, 133–137. 1858.1

Notes on cyprinodonts and air-bladder of Lepidosteus.

—— Descriptions des poissons nouvelles ou peu connus. Proc. Acad. Nat. Sci. Philad., 1863, 180–188; 227. 1863.1

—— Repertorio fisico-natural de la isla de Cuba. 2 vols. Habana, 1865–68. illust. 8°. 1865.1

Contents of vol. i:
Peces ciegos, p. 113–116.
Peces nuevos de la isla de Cuba, p. 181–192.
Revista de los tipos Cuvierianos y Valenciennianos correspondientes á los peces de la isla de Cuba, p. 193–203; 265–278; 308–338; 369–383; 410–412.
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Monografia de las morenas cubanas, p. 245–268. 2 pls.
Synopsis piscium cubensium, p. 279–468. pl.

—— Synopsis piscium cubensium. Catalogo razonado de los peces de la isla de Cuba, extractado del Repertorio fisico-natural de la isla de Cuba, tomo segundo, pagina 279 y siguientes. Habana, 1868. 484 p. pl. 8°. 1868.1

44 new species are described. Dates of publication of the Synopsis and 'entregas' of the Memorias are given at p. 464.

—— New species of Cuban fish. Ann. Lyc. Nat. Hist. New York, 1870, **9**, 317–322. 1870.1

New species are described of Mesoprion, Ocyurus, Gymnothorax, Perestedion, Rhinogobius, Acanthurus and Echelus.

—— Note on the hermaphroditism of fish. Ann. Lyc. Nat. Hist. New York, 1870, **9**, 309–310. 1870.2

—— Review of the fish of Cuba belonging to the genus Trisotropus, with an introductory note by J. Carson Brevoort. Ann. Lyc. Nat. Hist. New York, 1870, **9**, 301–309. 1870.3

12 species are described.

—— Genres des poissons de la faune de Cuba, appartenant à la famille Percidæ, avec une note d'introduction par J. Carson Brevoort. Ann. Lyc. Nat. Hist. New York, 1871, **10**, 27–79. pl. 1871.1

—— Plantilla descriptiva ictiológica. Anal. Soc. Española Hist. Nat. Madrid, 1872, **1**, 1–34. 1872.1

—— *Evoxymetopon tæniatus*. Anal. Soc. Española Hist. Nat., Madrid, 1873, **2**, 77–80. pl. 1873.1

—— *Grammicolepis brachiusculus*, tipo de una nueva familia en la clase de los peces. Anal. Soc. Española Hist. Nat., Madrid, 1873, **2**, 403–406. 1873.2

—— Monographie des poissons de Cuba compris dans la sous-famille des Sparini. Ann. Lyc. Nat. Hist. New York, 1874, **10**, 170–184. 2 pls. 1874.1

—— Enumeratio piscium cubensium. Anal. Soc. Española Hist. Nat., Madrid, 1875, **4**, 75–161. 3 pls. *Ibid.*, 1876, **5**, 131–218. 2 pls. *Ibid.*, 1877, **6**, 139–154. 1875.1

—— Poissons de l'île de Cuba. Espèces nouvelles décrites. Ann. Lyc. Nat. Hist. New York, 1874–77 (1877), **11**, 58–70. 1875.2

New species are described of Chilodipterus, Corvina, Eucinostomus, Mugil, Neoconger, Gymnothorax and Chilomycterus.

—— Notes on the American species of the genus Cybium [translated by George Brown Goode] Proc. U. S. Nat. Mus. 1878 (1879), **1**, 3–5. — Smithson. Misc. Coll., 1880, **19**, art. 1. 1879.1

Cybium cebella, *regale*, *acervum*, *maculatum*, *immaculatum* and *Acanthocybium peto*, n. sp., are described.

—— Revisio piscium cubensium. Anal. Soc. Española Hist. Nat., Madrid, 1880, **9**, 243–261. 4 pls. 1880.1

Erratas nuevamente descubiertas en la "Enumeratio piscium cubensium" de estos Anales, p. 261.

—— Peces (In Gundlach, J. Apuntes para la fauna puerto-riqueña. Anal. Soc. Española Hist. Nat., Madrid, 1881, **10**, 317–350. pl.) 1881.1

98 species are enumerated, all but 11 of which are common to the fauna of Cuba.

—— List of food-fishes brought from Key West, Fla., into the markets of Havana. Bull. U. S. Fish Comm. 1882 (1883), **2**, 118. 1883.1

15 species of teleosts are listed. The identifications are by D. S. Jordan.

Pogojeff, *L.* Ueber die feinere Structur des Geruchsorganes des Neunauges. Arch. Mikr. Anat., 1888, **31**, 1–14. pl. 1888.1

—— Ueber die Haut des Neunauges. Arch. Mikr. Anat., 1889, **34**, 106–122. pl. 1889.1

Pogonowska, *Irena.* Beiträge zur Kenntnis der Histologie des Herzens bei den Teleostiern, Ganoiden und Selachiern, mit besonderer Berücksichtigung der elastischen Elemente [Text in Hungarian] (In Festschrift zur Ehre . . . Prof. Dr. Józef Nusbaum, p. 113–151. pl. Lwów, 1911. 8°) 1911.1

Pogorzelskij, *V. A.* Bericht über die Thätigkeit der ichthyologischen Abtheilung während der letzten 25 Jahre [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1904, **2**, pt. 4, 1–11. 1904.1

Poher, *E.* Enquête sur la production et le commerce du poisson d'eau douce en Allemagne. Bull. Soc. Aquicult. Pêche, 1911, **23**, 1–15; 17–43. 1911.1

Statistical and other reports on the development of the industry in Germany.

Pohl, *Julius.* Beitrag zur Lehre von den Fischgiften. Versuche mit zwei giftigen Fischgattungen der Adria, Trachinus und Scorpæna. Prager Med. Wochenschr., 1893, no. 4. 1893.1

Pohlig, *Hans.* Altpermische Saurierfährten, Fische und Medusen der Gegend von Friedrichroda in Thüringen (In Festschrift zum siebenzigsten Geburtstage Rudolf Leuckarts, p. 59–64. Leipzig, 1892. pl. & figs.) 1892.1

—— Abstammungstheorie mit Rücksicht auf Erdgeschichte. Stuttgart, 1909. illust. 191 p. 8°. 1909.1

Contains remarks on fossil fishes.

—— Erdgeschichtliche Spaziergänge. Nützliche Plaudereien da und dort in Ernst und Scherz. Leipzig, 1914. 448 p. illust. 1914.1

Contains references to fossil fishes.

Poitevin, *M. B.* L'ami du pêcheur. Traité pratique de la pêche à toutes les lignes. Paris, 1897. 424 p. 4 pls. & 98 figs. 1897.1

Pokrovskii, *S. V.* Die Erfolglosigkeit der modernen Aufzucht-Methoden von Seefischen [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **6**, 192–197. 1901.1

Poli, *C.* Zur Entwickelung der Gehörblase bei den Wirbelthieren. Arch. Mikr. Anat., 1897, **48**, 644–686. 2 pls. 1897.1

Policard, *A.* Constitution lymphomyéloïde du stroma conjonctif du testicule des jeunes Rajidés. C. R. Acad. Sci. Paris, 1902, **134**, 297–299. C. R. Mém. Soc. Biol. Paris, **54**, 148–150. 1902.1

—— Sur les formations mitochondriales du rein des vertébrés. C. R. Mém. Soc. Biol. Paris, 1905, **59**, 380–382. 1905.1

Policard, *A.*, & **Mawas,** *J.* Le canalicule urinaire des téléostéens. Bibliogr. Anat., Nancy, 1906, **15**, 215–221. 3 figs. 1906.1

—— Le tissu lymphoïde du rein des téléostéens. C. R. Assoc. Anat., 1907, **9**, 25–29. 1907.1

—— Mitochondries et cils vibratiles C. R. Mém. Soc. Biol. Paris, 1909, **66**, 35–36. 1909.1

Policard, *A.*, & **Regaud,** *Cl.* *See* **Regaud & Policard.**

Police, *Gesualdo.* La pesca nel golfo di Napoli. Memoria. Rivist. Mens. Pesca, Pavia, 1910, **5**, 301–316. pl. *Ibid.*, 1911, **6**, 43–56; 73–82; 185–192. — Boll. Uff. Min. Agric., Roma, anno 9, C sér. **1**, pt. 4, 4–21. 1910.1

—— Prima serie di osservazioni ed esperienze intorno alla pesca con le sorgenti luminose. Monit. Zool. Ital., 1910, anno 21, 275–286. 1910.2

—— Contributo allo studio della pesca con le sorgenti luminose. Rivist. Mens. Pesca, Pavia, 1912, **7**, 27–42; 73–80. 1912.1

—— Elenco dei nomi dialettali dei principali pesci di mare e di acqua dolce del distretto peschereccio e del mercato di Napoli col corrispondente nome scientifico. Rivist. Mens. Pesca, Pavia, 1912, **7**, 81–88. 1912.2

Polidori, *L.* Del pesce come simbolo di Cristo e dei Cristiani. Milano, 1841. 8°. 1841.1

Polimanti, *Oswald.* Beiträge zur Physiologie des Nervensystems und der Bewegung bei den niederen Thieren. I. *Branchiostoma lanceolatum* Yarr. (Amphioxus) Arch. Anat. Physiol. (*Physiol. Abth.*), 1910, 129–172. 6 figs. 1910.1

—— Action de divers poisons sur l'activité du cœur embryonnaire des poissons (deuxième mémoire) Journ. Physiol. Path. Gén., Paris, 1911, **13**, 825–840. 1911.1

—— Activité et repos chez les animaux marins. Bull. Inst. Gén. Psychol. (*Sect. Psychol. Zool.*), 1911, **2**, 1–43. 1911.2

—— Contributi alla fisiologia del sistema nervoso centrale e del movimento dei pesci. Zool. Jahrb. (*Allg. Zool. Physiol. Abth.*), 1911–12. 1911.3

i. Selachoidei (*Scyllium catulus* Cuvier e *Scyllium canicula* L.) Zool. Jahrb. (*Allg. Zool. Physiol. Abth.*), 1911, **30**, 473–716. 6 pls. & 48 figs.

ii. Batoidei: A. *Torpedo marmorata* Risso (*T. ocellata* Raf.) B. *Trygon violacea* Bp. Appendice. Movimento della Trigla sp. div. *Ibid.*, 1912, **32**, 311–366. 2 pls. & 19 figs.

iii. Teleostei: A. Crenilabrus sp. div., Serranus sp. div., Scorpæna sp. div. B. *Conger vulgaris* Cuv. C. (Pleuronettidi) *Rhombus lævis* L., *Solea vulgaris* Quenzel. Appendice. Movimento del *Balistes capriscus* L. (Plettognati) *Ibid.*, 1912, **32**, 367–584. 2 pls. & 20 figs.

—— Influence des agents physiques de concentration et température sur l'activité du cœur embryonnaire des poissons (premier mémoire) Journ. Physiol. Path. Gén., Paris, 1911, **13**, 797–808. 1911.4

—— Influenza della forma sulla locomozione dei pesci. Zeitschr. Allg. Physiol., 1911, **12**, 407–438. 29 figs. 1911.5

—— Ueber den Beginn der Atmung bei den Embryonen von Scyllium (*S. catulus* Cuv., *S. canicula* L.) Zeitschr. Biol. 1911, **57**, 237–272. 2 figs. 1911.6

—— Einfluss der Augen und der Bodenbeschaffenheit auf die Farbe der Pleuronektiden. Biol. Centralbl., 1912, **32**, 296–307. 1912.1

—— Einfluss niedriger Temperaturen auf die Pigmentierung und Atmung von *Apogon rex mullorum* C. Bp. Zentralbl. Physiol., 1912, **25**, 1209–1213. 1912.2

—— Das Kaudalherz der Muraeniden als Exponent der spinalen Erregbarkeit betrachtet (Experimente an *Conger vulgaris* L.) Zeitschr. Biol., 1912, **59**, 171–231. 23 figs. 1912.3

—— Sopra i movimenti che si determinano nei pesci per una anormale illuminazione degli occhi. Zeitschr. Allgem. Physiol., 1912, **13**, 348–366. 1912.4

—— Ueber die Asphyxie der Fische an der Luft und ihre postmortale Herz- und Muskelerregbarkeit. Arch. Anat. Physiol. (*Physiol. Abth.*) 1911 (1912), 287–338. — Zweite Abhandlung. *Ibid.*, 1914, 436–519. 1912.5

—— Ueber den Fettgehalt der Leber einiger Selachier während der Zeit der Schwangerschaft. Vorläufige Mitteilung. Biochem. Zeitschr., Berlin, 1912, **38**, 497–500. 1912.6

In Trygon, Torpedo and Scyllium.

—— Untersuchungen über die Topographie der Enzyme im Magen-Darmrohr der Fische. Biochem. Zeitschr., Berlin, 1912, **38**, 115–128. 1912.7

—— Contributions à la physiologie du système nerveux central et du mouvement des poissons. Arch. Ital. Biol., 1913, **59**, 383–401. 1913.1

—— Sugli effetti consecutiv al taglio del nervo ottavo (viii) nei pesci (Trigla sp. div.) Internat. Monatschr. Anat. Physiol., 1913, **29**, 505–540. 1913.2

—— Ein Maulhalter für Scyllium (In his Einige Apparate für physiologische Untersuchungen an Seetieren. I. Zeitschr. Biol. Techn. Method., 1913, **3**, 115) 1913.3

—— Ueber den Fettgehalt und die biologische Bedeutung desselben für die Fische und ihren Aufenthaltsort. Vorläufige Mitteilung. Biochem. Zeitschr., 1913, **56**, 439–445. 1913.4

Grössere Fettmenge der nektonischen Fische.

—— Ueber die Asphyxie der See- und Süsswasserfische an der Luft und über die postrespiratorische Dauer der Herzpulsationen. II. Abhandlung. Arch. Anat. Physiol. (*Physiol. Abt.*), 1914, 436–519. 1914.1

—— Ricerche sulla fisiologia comparata del cerveletto. I. Trygon (sp. div.) Internat. Monatschr. Anat. Physiol., Leipzig, 1915, **31**, 305–358. 18 figs. 1915.1

Centro generale per la orientazione.

Polk, *B. H.* Arkansas shad. Forest & Stream, 1878, **10**, 296. 1878.1

—— Paddle-fish or shovel-nose sturgeon. Forest & Stream, 1879, **11**, 482. 1879.1

Poll, *Heinrich.* Die Anlage der Zwischenniere bei den Haifischen. Arch. Mikr. Anat., 1903, **62**, 138–174. pl. & 2 figs. 1903.1

—— Die vergleichende Entwickelungsgeschichte der Nebennierensysteme der Wirbeltiere [Fische] (In Hertwig, O. Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere, vol. iii, pt. 1, 465–482; 530–538. Jena, 1906) 1906.1

Pollard, *H. B.* On the anatomy and phylogenetic position of Polypterus (Preliminary communication) Anat. Anz., 1891, **6**, 338–344. figs. 1891.1

—— The lateral line system in siluroids. Zool. Jahrb. (*Anat.*), 1892, **5**, 525–551. 2 pls. 1892.1

—— On the anatomy and phylogenetic position of Polypterus. Zool. Jahrb. (*Anat.*), 1892, **5**, 387–428. 4 pls. & 10 figs. 1892.2

—— The "cirrhostomial" origin of the head in vertebrates. Anat. Anz., 1894, **9**, 349–359. 4 figs. 1894.1

Discusses the derivation of the siluroids from Amphioxus, Myxine, etc.

—— Observations on the development of the head in *Gobius capito.* Quart. Journ. Micr. Sci., 1894, n. s. **35**, 335–352. 2 pls. 1894.2

—— The oral cirrhi of siluroids and the origin of the head in vertebrates. Zool. Jahrb. (*Abth. Anat.*), 1895, **8**, 379–424. 2 pls. 1895.1

—— The suspension of the jaws in fish. Anat. Anz., 1895, **10**, 17–25. 5 figs. 1895.2

—— Ueber Labialknorpel. Verh. Anat. Ges., 1895, **9**, 232–235. figs. 1895.3

Pollard, *Isaac W.* Presence of shad in the rivers tributary to the gulf of Mexico. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 391–392. 1874.1

Pollen, *Daniel.* Exportation of salmon ova to New Zealand in 1876. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 977. 1878.1

Pollen, *François P. L.* [—1886] Enumération des animaux vertébrés de l'île de Madagascar. Amsterdam, 1863. 8°. 1863.1

—— Les pêches (In Pollen, F. P. S., & Dam, D. C. van. Recherches sur la faune de Madagascar et de ses dépendances, pt. 4. 89 p. Leyde, 1868–77. 4°) Also separate; Leyde, 1874. 89 p. 1868.1

—— Is de overeenkomst tusschen de Rijnoeverstaten over gemeenschappelijke bepalingen op de visscherij in den Rijn in het belang van Nederland? Leiden, 1870. 32 p. 8°. 1870.1

—— De baars [*Perca fluviatilis* Linn.] Alg. Visscherij-Courant, 1871, no. 14. 1871.1

—— De barbeel [*Cyprinus barbus* Linn.] Alg. Visscherij-Courant, 1871, no. 47. 1871.2

—— De pos [*Perca cernua* Linn.] Alg. Visscherij-Courant, 1871, no. 15. 1871.3

—— De snoek [*Esox lucius* Linn.] Alg. Visscherij-Courant, 1871, no. 16 & 17. 1871.4

—— Welche Wichtigkeit für die Niederlande hat die Uebereinkunft zwischen den Rheinufer-Staaten über gemeinschaftliche Bestimmungen in Betreff der Rheinfischerei? Circul. Deutsch. Fischerei Ver., 1871, no. 3, 19–33. 1871.5

—— De zeeprik [*Petromyzon marinus* Linn.] Alg. Visscherij-Courant, 1871, no. 18–25. 1871.6

—— De elft [*Clupea alosa* Linn.] Alg. Visscherij-Courant, 1872, no. 6, 7, 10. 1872.1

Pollen, *François P. L.*, & **Bleeker,** *Pieter. See* **Bleeker & Pollen.**

Pollen, *François P. L.*, & **Dam,** *D. C. van.* Recherches sur la faune de Madagascar et de ses dépendances, d'après les découvertes de F. P. L. Pollen et D. C. van Dam. Leyde, 1868–77. 4°. 1868.1

Poissons, par P. Bleeker. Les pêches, par F. P. L. Pollen.

Pollini, *C.* Sopra alcuni avanzi di pesci fossili terziari conservati nel Museo Geologico della Regia Università di Genova. Milan, 1889. 96 p. pl. 8°. 1889.1

—— Pesci fossili di Racalmuto (Sicilia) Atti Soc. Ligust. Sci. Nat., Genova, 1891, **2**, 117–122. 1891.1

Pollock, (*Sir*) *Frederick* [1845—] The fishery laws. Intern. Fisheries Exhib. Lit., London, 1884. Handbooks, **1**. 1884.1

Poloumordwinoff, *D.* Recherches sur les terminaisons nerveuses sensitives dans les muscles striés volontaires. C. R. Acad. Sci. Paris, 1899, **128**, 845–846. 1899.1

—— Der Nervenendapparat der electrischen Organe bei Torpedo [Text in Russian] Mém. Scient. Univ. Imp. Kazan, 1902, pts. 5–6. 42 p. pl. 1902.1

—— Ueber die sensibeln Nervenendigungen in den Muskeln der willkürlichen Bewegung [Text in Russian] Mém. Scient. Univ. Imp. Kazan, 1902, pt. 3, 121–146. pl. 1902.2

Poluta, *G.* Recherches sur la durée de la vie des poissons hors de l'eau. Ann. Sci. Nat. (*Zool.*), 1865, 5. sér. **4**, 62–64. — Zool. Garten, **7**, 155–156. 1865.1

Pomar, *Luis.* Memoria sobre la pesca en Chile. Talleres tipográficos de la marina. Valparaiso, 1900. 45 p. 1900.1

—— Account of the fishing industry in Chile, read at the sixth general scientific congress held in La Serena in January, 1900, by the delegate from the navy. Santiago de Chile, 1901. 47 p. 1901.1

Pompeckj, *Joseph Felix* [1867—] (*editor*) K. A. von Zittel's palæontologische Wandtafeln. Serie I. Fossile Tiere. Stuttgart, 1900. 83 charts. 1900.1

Pisces, Tafeln 34–38. Selachii und Ganoidei.

—— Karl A. von Zittel. Ein Nachruf. Palæontographica, 1904, **50**, 6. Lief., 1*–28*. 1904.1

—— Fische: Paläontologia (In Handwörterbuch der Natur, 1913, vol. ii, 1107–1147) 1913.1

—— Ernst Koken, mit einem Porträt. Palæontographica, 1913, **59**, i–iv. 1913.2

—— Ueber die ursprüngliche Wohnsitze der Fische [in Süsswasser] Jahresh. Ver. Vaterl. Nat. Württemberg, 1914, 70. Jahrg., xcii. 1914.1

Poncy, *R.* Contribution à l'étude des mœurs de la mouette rieuse (*Larus ridibundus* L.) Bull. Soc. Zool. Genève, 1911, **1**, 295–330. 1911.1

Larus ridibundus is described as harmful to fishes and is stated to be found in the stomach contents of *Alburnus lucidus* and *Perca fluviatilis.*

—— Relevé de notes sur les échassiers et palmipèdes se monstrant dans la région du Léman. Bull. Soc. Zool. Genève, 1911, **1**, 330–342. 1911.2

Remarks on the stomach contents of *Phalacrocorax carbo* L. (*Alburnus lucidus, Perca fluviatilis, Spirlinus bipunctatus*)

Pond, *J. Warren.* Report of chief fish and game protector and forester. 2. Ann. Rept. Comm. Fish., Game & Forests New York 1896 (1897), 252–253. 1897.1

Pond, *Raymond Haines.* The biological relation of aquatic plants to the substratum [With bibliography] Rept. U. S. Fish Comm. 1903 (1905), **29**, 483–526. figs. 1905.1

Investigation of factors which determine the quantity of food-fishes in the Great Lakes.

—— How rooting aquatic plants influence the nutrition of the food fishes of our great lakes. Pop. Sci. Monthly, 1906, **68**, 251–254. 1906.1

Pontoppidan, *Erich Ludvigsen* [1698–1764] Dänischer Atlas, oder Beschreibung des Königreichs Dänemark, etc. Kopenhagen & Hamburg, 1766. 1766.1

Poole, *T. H.* Survey of fishing grounds, west coast of Ireland, 1890–1891; table of temperature and specific gravity of sea-water, from observations taken on board the "Fingal," in 1890. Sci. Proc. Roy. Dublin Soc., 1892, n. s. **7**, 478–483. 1892.1

Pope, *Benjamin F.* Notes on the natural history of southwestern Texas. Forest & Stream, 1877, **9**, 63. 1877.1

Pope, *Thomas E. B.* Devils lake, North Dakota; a study of physical and biological conditions, with a view to the acclimatization of fish. Rept. U. S. Comm. Fisheries 1907 (1908), Doc. no. 634, 1–22. 3 pls. & map. 1908.1

Pope, *Thomas E. B.,* & **Smith,** *Hugh McCo.* *See* **Smith & Pope.**

Popoff, *M.* Fischfärbung und Selektion. Biol. Centralbl., 1906, **26**, 272–282. 1906.1

Popoff, *Nicolas.* L'ovule mâle et le tissu interstitiel du testicule chez les animaux et chez l'homme. Arch. Biol., 1909, **24**, 433–500. 3 pls. 1909.1

Popovici-Hatzeg, *V.* Les couches nummulitiques d'Albesti (Roumanie) Bull. Soc. Géol. France, 1896, 3. sér. **24**, 247–249. Abstract in C. R. Soc. Géol., France, no. 9, p. lxxix–lxxxi. 1896.1

Teeth of Lamnidæ and Myliobatis are indicated.

—— [Ueber fossile Fische aus eocänem Flysch des Valea Caselar in Rumänien; Scorpænoides, n. g.] Notice in Neues Jahrb. Mineral., 1901, **2**, 148. 1901.1

Poppe, *J. A.* The culture of carp. Forest & Stream, 1876, **6**, 69. 1876.1

Poppe, *Robert A.* The introduction and culture of the carp in California. Rept. U. S. Fish Comm. 1878 (1880), **6**, 661–666. 1880.1

Poppe, *S. A.* Zoologische Litteratur über das nordwestdeutsche Tiefland von 1892–1902. Abh. Nat. Ver. Bremen, 1903, **17**, 306–335. 1903.1

—— Referat über Ciuca: die Perlholostomumkrankheit des Karpfens. Zentralbl. Bakteriol. Parasit. Kunde, 1911, **49**, no. 7. 1911.1

Poppius, *B.* *Esox lucius* mit abnormem Schädel [Text in Finnish] Meddel. Soc. Fauna Flora Fenn., 1911, **37**, 53; 217. 1911.1

Popta, *Canna M. L.* A new species of Arius [*A. bleekeri*] Notes Leyden Mus. 1900–01, **22**, 71–74. 1900.1

—— On a small Monacanthus [*M. radiatus*] Notes Leyden Mus., 1900–01 **22**, 126–128. 3 figs. 1900.2

—— *Tetragonopterus longipinnis*, n. sp. Notes Leyden Mus., 1900–03, **23**, 85–90. fig. 1900.3

—— *Acanthophthalmus shelfordii*, n. sp. Notes Leyden Mus., 1901–03, **23**, 231–233. fig. 1901.1

—— Les appendices branchiaux des poissons. Ann. Sci. Nat. (*Zool.*), 1901, 8. sér. **12**, 139–216. pl. 1901.2

—— Note préliminaire sur les appendices des branchies chez les poissons. Bull. Mus. Hist. Nat. Paris, 1901, 11–12. 1901.3

—— Un Pantodon de la rivière Kassai. Notes Leyden Mus., 1901–03, **23**, 111–112. 1901.4

—— *Tetragonopterus longipinnis*, n. sp. Notes Leyden Mus., 1901, **23**, 85–90. fig. 1901.5

—— Descriptions préliminaires des nouvelles espèces de poissons recueillies au Bornéo central par M. le Dr. A. W. Nieuwenhuis en 1898 et en 1900. Notes Leyden Mus., 1902–04, **24**, 179–202. *Ibid.*, 1904–05, **25**, 171–186. 1902.1

—— Un *Pterois miles* Benn., *Pt. volitans* L. adulte, de la baie de Sabang. Notes Leyden Mus., 1902–04, **24**, 169–173. 1902.2

—— Iets over onzen gewonen aal (*Anguilla vulgaris*) Album Natuur, 1903, 89–102; 129–145. 1903.1

—— Les arcs branchiaux de quelques Murænidæ. Ann. Sci. Nat. (*Zool.*), 1904, 8. sér. **19**, 367–390. 20 figs. 1904.1

—— *Haplochilus sarasinorum*, n. sp. Notes Leyden Mus., 1904–05, **25**, 239–247. fig. 1904.2

—— Visschen. Encycl. Nederlandsch-Indie, 1904, **4**, 547–552. 1904.3

—— Résultats ichthyologiques des voyages scientifiques de Monsieur le Professeur Dr. A. W. Nieuwenhuis dans le centre de Bornéo (1898 et 1900) Notes Leyden Mus., 1905–06, **27**, 1–304. 10 pls. 1905.1

—— Ueber die Entwicklung der Fisch-Fauna von Mittel-Borneo. C. R. 6. Congr. Intern. Zool. Berne, 1905, 559–561. 1905.2

—— Einige Fischarten aus China, *Xenocypris lampertii* und *Chanodichthys stenzii*, n. sp. Zool. Anz., 1907, **32**, 243–251. 2 figs. 1907.1

—— Wachstumsverhältnisse bei einigen Fischarten. Verh. Ges. Deutsch. Naturf. Aerzte, 78. Vers., 1907, **2**, pt. 1, 298–302. 1907.2

—— Een vergelijkend en historisch oversicht over de visschen van Borneo. Album Natuur, 1908, 251–264; 290–296. 1908.1

—— Zur systematischen Stellung von *Tetragonopterus longipinnis* Popta. Zool. Anz., 1908, **32**, 763–764. 1908.2

—— Etude sur la vessie aérienne des poissons; sa fonction. Ann. Sci. Nat. (*Zool.*), 1910, 9. sér. **12**, 1–160. 1910.1

—— Ueber Fische von Wladiwostok und von Blagoweschtensk a. Amur, gesammelt von Herrn Dr. P. & Wittenburg. Jahresh. Ver. Vaterl. Nat. Württemberg, 1911, 67. Jahrg., 333–353. fig. 1911.1

—— Vorläufige Mitteilung über neue Fische von Lombok. Notes Leyden Mus., 1911, **34**, 9–16. 1911.2

—— La fonction de la vessie aérienne des poissons. Verh. 8. Intern. Zool. Kongr. Graz 1910 (1912), 575–577. 1912.1

Popta, *C. M. L.*
—— Fortsetzung der Beschreibung von neuen Fischarten der Sunda-Expedition. Notes Leyden Mus., 1912, **34**, 185–193. 1912.2

—— Die geographische Verbreitung der Süsswasserfische zwischen Asien und Australien (In Die Sunda-Expedition, Elbert, 1912, **2**, 315–326) 1912.3

—— Ichthyographische Uebersicht von Lombok. Verh. Ges. Deutsch. Nat. Aerzte, 1912, 83. Vers., **2**, pt. 1, 418–423. 1912.4

—— *Auchenoglanis buettikoferi*, n. sp. from West Africa. Notes Leyden Mus., 1913, **35**, 237–240. pl. 1913.1

—— Une explication de la grande différence qui existe entre la faune ichthyologique de Bornéo et celle de Celebes. Commun. 9. Congr. Intern. Zool. Monaco, 1913, 2. ser. **2**, 26. 1913.2

Porsild, *Morten P.* Hvor opholder den grønlandske laks sig om winteren (Arb. Dansk. Arkt. Stat. Disko no. 1) Meddel. Grønland, 1910, **47**, 229–236. 1910.1

Porta, *Antonio.* Nota sugli echinorinchi di pesci del Museo Zoologico di Napoli. Ann. Mus. Zool. Univ. Napoli, 1904, n. s. **1**, no. 20, 4 p. 6 figs. 1904.1

—— Gli echinorinchi dei pesci. Arch. Zool., Napoli, 1905, **2**, fasc. 2, 149–214. 3 pls. 1905.1

—— Ricerche anatomiche sull'apparecchio velenifero di alcuni pesci. Anat. Anz., 1905, **26**, 232–247. 2 pls. 1905.2

Porter, *B. B.* An attractive fish farm. Forest & Stream, 1876, **7**, 196. 1876.1

—— Crowding trout ponds. Forest & Stream, 1876, **7**, 3. 1876.2

—— Care of young trout. Forest & Stream, 1877, **8**, 191. 1877.1

—— Growth of trout. Forest & Stream, 1877, **9**, 325. 1877.2

—— Fish-culture in Colorado. Forest & Stream, 1878, **9**, 469. 1878.1

—— Gold-fish. Forest & Stream, 1878, **10**, 2. 1878.2

—— Shad in California. Chicago Field, 1878, **6**, 229. 1878.3

—— Trout raising. Chicago Field, 1878, **9**, 83. 1878.4

—— Methods of fish-culture. Trans. Amer. Fisheries Soc. 1878 (1879), 4–8. 1879.1

Porter, *Carlos Emilio.* For list of writings *see* Revist. Chil. Hist. Nat., 1910, **14**, 1–16. Also Bibliografía del Prof. Carlos E. Porter (In Boletin de Bibliografía Nacional y Extranjera de la Biblioteca Nacional [Chile] vol. ii, 233–239. Santiago de Chile, 1914)

—— Contribución á la fauna de la provincia de Valparaiso. Revist. Chil. Hist. Nat., 1898, **2**, 31–33. 1898.1

—— Ensayo de una bibliografía chilena de historia natural. Revist. Chil. Hist. Nat., 1898, **2**, 27–28; 38; 45–46; 77–79; 108–109; 126–127. *Ibid.*, 1899, **3**, 3–4; 33–34. 1898.2

—— Las especies chilenas del viaje del buque esplorador de S. M. B. "Challenger" extractadas y adicionadas de varias notas [Peces] Revist. Chil. Hist. Nat., 1900, **4**, 39–42; 67–68; 153–154; 181–184. *Ibid.*, 1901, **5**, p. 50. *Ibid.*, 1903, **7**, 230–233. *Ibid.*, 1904, **8**, 14–15. 1900.1

—— Catálogo razonado de los trabajos historico-naturales hechos desde 1894 hasta 1903. Valparaiso, 1904. 4 p. 8 figs. 8°. 1904.1

—— El naturalista Delfin fallecido ayer en este puerto. Revist. Chil. Hist. Nat., 1904, **8**, 134–138. 1904.2

—— Sobre el *Orthagoriscus mola* obsequiado recientemente al Museo por el Capitan Alberto Fuentes. Revist. Chil. Hist. Nat., 1904, **8**, 238–239. 1904.3

—— El Dr. Clodomiro Perez Canto, notas biográficas y bibliográficas. Revist. Chil. Hist. Nat., 1905, **9**, 290–293. 1905.1

List of fishes described.

—— Galería de naturalistas de Chile: el naturalista Delfin. Revist. Chil. Hist. Nat., 1905, **9**, Valparaiso, 133–138. 1905.2

—— Adiciónes y observaciónes al catálogo de los peces de Chile del Dr. Delfin. Act. Soc. Scient. Chili, 1909, **19**, 52–62. fig. — Revist. Chil. Hist. Nat., 1910, **14**, 73–83. 1909.1

Revision of the synonymy of thirty species of Chilean fishes since the date of publication of Federico Delfin's Catálogo, 1901–03.

—— Breve nota de ictiología; enumeración metódica y extensión geográfica

de las especies más importantes, en su mayor parte comestibles, comunes á las aguas de Chile y del Perú. Revist. Univ., Lima, 1909, **3**, 138–149. 6 figs. — Revist. Chil. Hist. Nat., **13**, 280–293. 5 figs. 1909.2

—— Ictiolojía. Adiciónes i observaciónes al "Catálogo de los peces de Chile" del Dr. Delfin. Ann. Univ. Chile, 1909, **125**, 919–929. 1909.3

—— Ictiolojía: enumeración de especies importantes comunes a las aguas de Chile i del Perú. Revist. Chil. Hist. Nat., 1909, **13**, 280–293. pl. & 3 figs. 1909.4

—— Protovertebrado nuevo para la fauna de Chile. Revist. Chil. Hist. Nat., 1909, **13**, 123. 1909.5

Treats of *Branchiostoma elongatum* found for the first time in Chilean waters.

Porter, *Henry H.* Impregnation of trout ova. Forest & Stream, 1878, **11**, 280. 1878.1

Porter, *Joseph Y.* On the destruction of fish by poisonous water in the gulf of Mexico. Proc. U. S. Nat. Mus., 1881, **4**, 121–124. — Smithson. Misc. Coll., 1882, **22**, art. 2. 1881.1

Porthan, *Henrik Gabriel.* Anmärkningar om Viitasaari socken. Tidn. Sällsk. Abo, 1777, 65–70; 73–78; 90–93; 100–101. 1777.1

Pisces, p. 68.

—— Femte hufvuddelen om storfurstendömet Finland (In Thuneld, Eric. Geographie öfver Konungariket sverige samt därunder hörande länder. 3 vols. Stockholm, 1794) 1794.1

Pisces, vol. iii, p. 250; 272; 297; 308; 326; 334; 377; 397; 398; 412; 421.

Portier, *Paul.* Sur la température du *Thynnus alalonga.* Bull. Soc. Zool. France, 1903, **28**, 79–81. 1903.1

—— Les poissons électriques. Bull. Mus. Océanogr., Monaco, 1906, no. 76, 23 p. 18 figs. 1906.1

—— Température de vertébrés marins, en particulier des poissons du groupe des thons. C. R. Mém. Soc. Biol. Paris, 1908, **64**, 400–402. 1908.1

Temperature de Thynnus supérieure à celle de l'eau de mer.

Portier, *P.* Adaptation du *Cottus groenlandicus* aux variations salines du milieu extérieur. Arch. Fisiol. Firenze, 1914, **12**, 109–110. 1914.1

Combinaison lache entre les albuminoïdes et les substances salines. Par dissociations et associations rapides le sang conserve la constance des valeurs cryoscopiques.

Portlock, *Joseph Ellison* [1794–1864] Further notice respecting the ova of the large spotted dog-fish. Ann. Mag. Nat. Hist., 1845, **15**, 345–346. 1845.1

—— Note on Mr. W. Thompson's paper on the ova of the large spotted dog-fish. Ann. Mag. Nat. Hist., 1845, **15**, 261–262. 1845.2

Portugal, *King of. See* **Carlos de Braganza,** *Dom.*

Poso, *Ofelia.* Contributo allo sviluppo della milza nei vertebrati. Rendic. Accad. Sci. Napoli, 1906, 3. ser. **12**, 39–40. 1906.1

Posselt, *W.* Etwas über den Berger Lebertran. Mag. Pharm., 1826, **15**. 1826.1

Post, *Hoyt.* The sturgeon: some experiments in hatching. Trans. Amer. Fisheries Soc. 1890 (1891), 36–40. 1891.1

—— State control of state fisheries. Trans. Amer. Fisheries Soc. 1892 (1893), 118–124. 1893.1

—— Fish-culture in Michigan. Trans. Amer. Fisheries Soc. 1893 (1894), 132–154. — Bull. U. S. Fish Comm. 1893 (1894), **13**, 201–211. 1894.1

Posthumus, *L.* De voorplanting der alen. Isis (Hartogh Heys), 1875, **4**, 65–69. 1875.1

Potempa, *A.* Neue Ansichten über die Brutpflege der Maulbrüter. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 490–491. 1909.1

—— Allerlei vom *Rivulus poeyi.* Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 61–62. 1910.1

—— Der Laichakt des *Danio rerio.* Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 621–622. fig. 1910.2

—— *Badis badis.* Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 381–383. fig. 1911.1

—— *Tetragonopterus rubropictus* Berg. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 757–758. 2 figs. 1911.2

Potter, *Emery D.* [1804–1896] For memorial notice, *see* Gunckel, John E., in Trans. Amer. Fisheries Soc. 1896 (1897), 37–44.

Potter, *E. D.*

—— California salmon. Forest & Stream, 1879, **9**, 63. 1879.1

—— The origin of artificial fish-culture in the United States. Trans. Amer. Fisheries Soc. 1890 (1891), 41–43. 1891.1

Potter, *William H.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 428. 1879.1

Potters, *K.* Ursachen des Fischsterbens und Fischmangels in der Spree und Havel. Brandenburgia, Monatsbl. Ges. Heimatk., 1896, 5. Jahrg., 235–241. 1896.1

Pouchet, *Félix Archimède* [1800–1872] Traité élémentaire de zoologie. Rouen, 1832. 8°. 1832.1

—— Zoologie classique, ou histoire naturelle du règne animal. 2. ed. 2 vols. & atlas. Rouen & Paris, 1841. illust. 1841.1

—— Histoire des sciences naturelles au moyen-âge. Paris, 1853. 1853.1

—— De l'hygiène et de l'alimentation des poissons nouvellement éclos. Bull. Soc. Acclim. Paris, 1854, **1**, 474–487. 1854.1

Pouchet, *Georges.* Rapports sur les établissements de pisciculture de Huningue et de Wolfsbrunnen. Rouen, 1856. 31 p. 8°. 1856.1

—— Sur les cyprins monstrueux (*Cyprinus auratus*) venant de Chine. Journ. Anat. Physiol., Paris, 1870, 7. année, 561–569. pl. — C. R. Acad. Sci. Paris, 1870, **70**, 1157–1158. 1870.1

—— On the connexion of nerves and chromoblasts. Monthly Micr. Journ., 1871, **6**, 285–289. 1871.1

—— Sur les rapides changements de coloration provoqués expérimentalement chez les poissons. C. R. Acad. Sci. Paris, 1871, **72**, 866–869. 1871.2

—— Cause of the blue and violet chatoyant colors of fishes. Abstract in Amer. Journ. Sci., 1872, 3. ser. **4**, 78. 1872.1

—— The color of fishes. Abstract in Pop. Sci. Review, 1872, **11**, 434. — Amer. Naturalist, 1874, **8**, 559–562. 1872.2

—— Du rôle des nerfs dans les changements de coloration des poissons. Journ. Anat. Physiol., Paris, 1872, 8. année, 71–74. — C. R. Mém. Soc. Biol. Paris, 1873, 5. sér. **3**, 113–117. 1872.3

—— L'embryogénie et la pisciculture en France. Rev. Deux Mondes, 1872, **119**, 189–210. 1872.4

—— Observations sur le développement d'un poisson du genre Macropode. Rev. et Mag. Zool., 1872, 2. sér. **23**, 369–387. 1872.5

—— On the mechanism of the change of colour in fishes and crustacea. Rept. Brit. Assoc. Adv. Sci., 42. meet., 1872, 152. 1872.6

—— Sur les rapides changements de coloration provoqués expérimentalement chez les crustacés et sur les colorations bleues des poissons. Journ. Anat. Physiol., Paris, 1872, 8. année, 401–407. — C. R. Acad. Sci. Paris, 1872, **74**, 757–760; 1341–1343. 1872.7

—— Sur les changements de coloration que présentent certains poissons et certains crustacés. C. R. Mém. Soc. Biol. Paris, 1873, 5. sér. **4**, 63–65; 81–82. 1873.1

—— Sur le développement de la tête osseuse des poissons. C. R. Mém. Soc. Biol. Paris, 1874, 5. sér. **5**, 39–41. 1874.1

—— Sur les couleurs des poissons; rapport sur une mission scientifique aux viviers-laboratoires de Concarneau. Arch. Missions Sci., 1874, 3. sér. **1**, 535. — Journ. Zool., **3**, 105–123. 1874.2

—— Chromoblastes chez les épinoches. C. R. Mém. Soc. Biol. Paris, 1875, 6. sér. **1**, 276–278. 1875.1

—— Du développement du squelette des poissons osseux. Journ. Anat. Physiol., Paris, 1875, 11. année, 288–308. *Ibid.*, 1878, 14. année, 34–100; 140–153. 1875.2

—— Lésion du grand sympathique chez le turbot [*Rhombus maximus*] C. R. Mém. Soc. Biol. Paris, 1875, 6. sér. **1**, 350–351. 1875.3

—— Des changements de coloration sous l'influence des nerfs. Journ. Anat. Physiol., Paris, 1876, 12. année, 1–90; 113–165. 1876.1

—— Note un changement unilatéral de couleur produit par l'ablation d'un œil chez la truite. C. R. Mém. Soc. Biol. Paris, 1877, 6. sér. **3**, 364–365. 1877.1

—— Sur les conséquences de l'ablation d'un œil chez les poissons. C. R. Assoc. Franç. Avanc. Sci., 6. sess., 1877, **1**, 299. 1877.2

—— Nouvelle note sur le changement unilatéral de couleurs produit par l'ablation d'un œil chez la truite. C. R. Mém. Soc. Biol. Paris, 1879, 6. sér. **5**, 344–345. 1879.1

—— Quelle idée les anciens se faisaient-ils de la décharge électrique des poissons? Abstract in Rev. Intern. Sci., 1879, **3**, 468. 1879.2

—— On the laminar tissue of Amphioxus. Quart. Journ. Micr. Sci., 1880, n. s. **20**, 421–430. pl. 1880.1

—— Observations et expériences sur la circulation lymphatique chez les poissons Pleuronectes. C. R. Mém. Soc. Biol. Paris, 1881, 7. sér. **2**, 222–224. 1881.1

—— Sur le système de canaux et sur la corde dorsale de l'Amphioxus. C. R. Mém. Soc. Biol. Paris, 1881, 7. sér. **2**, 175–176. 1881.2

—— Des terminaisons vasculaires dans la rate des sélaciens. Journ. Anat., 1882, **18**, 498–502. pl. 1882.1

—— La question de la sardine. Phare de la Loire, 1886. — Rev. Scient., 1887. 1886.1

—— La couleur des eaux de la mer et les pêches au filet fin. C. R. Assoc. Franç. Avanc. Sci., 16. sess., 1887. 1887.1

—— L'emploi des seines à sardine. Nantes, 1887. 12°. 1887.2

—— La sardine et le laboratoire de Concarneau. Rev. Scient., 1887. 1887.3

—— Le régime de la sardine sur la côte océanique de France en 1887. Abstract in C. R. Acad. Sci. Paris, 1888, **106**, 554–556. 1888.1

—— La sardine. Rev. Deux Mondes, 1888. 1888.2

—— Rapport au Ministre de l'Instruction Publique sur le fonctionnement du laboratoire de Concarneau en 1888, et sur la sardine. Journ. Anat. Physiol., Paris, 1889, **25**, 387–448. 5 figs. *Ibid.*, 1890, **26**, 617–629. *Ibid.*, 1891, **27**, 622–647. 1889.1

—— Le régime de la sardine. Rev. Scient., 1889, 239. 1889.2

—— Le régime de la sardine en 1888 sur la côte bretonne. C. R. Acad. Sci. Paris, 1889, **109**, 34–35. 1889.3

—— Sur des graphiques représentant le "régime" de la sardine. C. R. Mém. Soc. Biol. Paris, 1889, 9. sér. **1**, 509–510. 1889.4

—— Sur la croissance de la sardine océanique. C. R. Acad. Sci. Paris, 1889, **109**, 199. 1889.5

—— Sur l'œuf de la sardine. C. R. Acad. Sci. Paris, 1889, **109**, 119–120. 1889.6

—— La sardine de la Méditerranée. Rev. Scient., 1890. 1890.1

—— Nouvelles observations sur la sardine océanique. C. R. Acad. Sci. Paris, 1891, **112**, 744–745. 1891.1

—— Rapport sur la sardine. Journ. Anat. Physiol., Paris, 1891, **27**, 625–647. 1891.2

—— Sur le "régime" de la sardine océanique en 1890. C. R. Acad. Sci. Paris, 1891, **113**, 1064–1066. 1891.3

—— Remarque sur deux turbots à face nadirale pigmentée. C. R. Mém. Soc. Biol. Paris, 1892, 9. sér. **4**, 200–202. 1892.1

Pouchet, *Georges,* & **Beauregard,** *H.* Traité d'ostéologie comparée. Paris, 1889. 464 p. 331 figs. 8°. 1889.1

Poissons, p. 398–451.

Pouchet, *Georges,* & **Biétrix,** *E.* Sur le développement de l'alose et de la feinte. Journ. Anat. Physiol., Paris, 1889, **25**, 628–639. 11 figs. 1889.1

—— Sur l'œuf et les premiers développements de l'alose. C. R. Acad. Sci. Paris, 1889, **109**, 951–953. 1889.2

—— Sur des sardines présentant des œufs à maturité. C. R. Mém. Soc. Biol., Paris, 1892, 9. sér. **4**, 423–424. 1892.1

Pouchet, *G.,* & **Guerne,** *J. de.* Sur la nourriture de la sardine. C. R. Acad. Sci. Paris, 1887, **104**, pt. 1, 712–715. 1887.1

Poulet, *Jean Baptiste.* De la lotte d'eau douce vivipare [*Lota vulgaris*] et de la période d'interdiction de la pêche. Rev. Savoisienne, 1879, 20. année, 107. 1879.1

Pourtalès, *Louis François de,* & **Thomson,** *W.* *See* **Thomson** & **Pourtalès.**

Poussielgue, *E.* Quatre mois à Floride. Le Tour du Monde, [n. d.] no. 546, 394–400.

"Admirables couleurs des poissons des mers tropicales; la jaractière d'argent; le hareng-cheval, et la maman baleine; organisation de la grande pêche sur les côtes d'Amérique; le squale marteau; la pêche au thon, etc." — Bosgoed, D. M. Bibliotheca ichthyologica, p. 117. Haarlem, 1874.

Poussin, *Charles de la Vallée. See* **De le Vallée Poussin,** *C.*

Pouzols, *A.* De la coexistence des isoètes et des truites dans les lacs du Massif Central. Ann. Stat. Limnol. Besse, 1910, **1**, 375–379. 1910.1

Powell, *Llewellyn.* On four fishes commonly found in the river Avon; with a consideration of the question: "What is whitebait?" Trans. Proc. New Zealand Inst., 1870, **2**, 84–87. pl. 1870.1

—— Notes on the anatomy of *Regalecus pacificus* van Haast. Trans. Proc. New Zealand Inst. 1878 (1879), **11**, 269–270. 1879.1

Powers, *Edwin B.,* & **Shelford,** *Victor E. See* **Shelford** & **Powers.**

Powrie, *James.* On the Old Red Sandstone and its fossil fish in Forfarshire. Geologist, 1860, **3**, 336–339. 1860.1

—— Cephalaspides of Forfarshire. Geologist, 1861, **4**, 137–141. fig. 1861.1

—— On the Old Red Sandstone rocks of Forfarshire. Quart. Journ. Geol. Soc., 1861, **17**, 534–542. *Ibid.*, 1862, **18**, 427–437. 1861.2

Ostracoderms, Acanthodes, Climatius and ganoids.

—— Postscript to Mr. Powrie's letter on Cephalaspis. Geologist, 1861, **4**, 176. 1861.3

—— Note on Pteraspis. Geologist, 1863, **6**, 67–69. fig. 1863.1

—— On Glyptolepis [Holoptychius] of Dura Den. Geologist, 1863, **6**, 95–97; 184–185. 1863.2

—— On the fossiliferous rocks of Forfarshire and their contents. Quart. Journ. Geol. Soc., 1864, **20**, 413–429. pl. Abstract in Phil. Mag., 1864, **28**, 321. 1864.1

—— The Scottish Pteraspis. Geologist, 1864, **7**, 170–172. 1864.2

—— Fish in the Old Red Sandstone. Geol. Mag., 1867, **4**, 333–334. 1867.1

Aecanthodes, Diplacanthus, ganoids.

—— On the genus Cheirolepis, from the Old Red Sandstone. Geol. Mag., 1867, **4**, 147–152. figs. 1867.2

Headplates are figured.

—— On the earliest known vestiges of vertebrate life; being a description of the fish remains of the Old Red Sandstone rocks of Forfarshire. Trans. Geol. Soc. Edinburgh, 1870, **1**, 284–301. 6 pls. 1870.1

Acanthodidæ, Cephalopteridæ, Cephalaspidæ.

Powrie, *James,* & **Lankester,** *E. Ray.* A monograph of the fishes of the Old Red Sandstone of Britain. Part I. The Cephalaspidæ. Palæontogr. Soc., 1868, **21**, 1–33. 5 pls. & 12 figs. *Ibid.* (concluded), 1870, **23**, 1–62. 9 pls. & 21 figs. 1868.1

Poype, *Paulze d'Ivoy de la. See* **Paulze d'Ivoy de la Poype,** ——

Pozniakov, *A.* Ueber die Ausbeute an gemeinen Makrelen an den Küsten bei Odessa in Abhängigkeit von den chemisch-physikalischen Bedingungen des Meeres [Text in Russian] Vêst. Rybopromyšl., St. Petersb., 1908, **23**, 4–9. 1908.1

Prather, *J. M.* The early stages in the development of the hypophysis of *Amia calva.* Biol. Bull. Woods Hole, 1900, **1**, 57–80. 3 pls. 1900.1

Pratt, *Joseph Hyde.* Fishes of North Carolina; a review. Journ. Elisha Mitchell Scient. Soc., 1907, **23**, 157–183. fig. 1907.1

Pratt, *K. B.* Report of salmon-hatching operations on Rogue river, Oregon, 1877–78. Rept. U. S. Fish Comm. 1878 (1880), **6**, 773–774. 1880.1

Pratt, *W. A.* The profits of fish-culture. Amer. Sportsman, 1874, **4**, 377. 1874.1

—— Habits and methods of propagating fish. Forest & Stream, 1875, **4**, 277. 1875.1

Pravdin, *I. F.* Beobachtungen über das Wolganeunauge (*Caspiomyzon wagneri* Kessler) im Frühjahr 1912 [Text in Russian with German résumé] Arb. Ichth. Labor. Astrachani, 1913, **2**, 1–17. 1913.1

—— Herbstwanderung des Neunauges (*Caspiomyzon wagneri* Kessler) aus dem kaspischen Meer in die Wolga [Text in Russian with German résumé] Arb. Ichth. Labor. Astrachani, 1913, **2**, 19–43. 1913.2

Preble, *Edward A.* A biological investigation of the Athabaska-Mackenzie region. North American Fauna, 1908, no. 27, 1–574. 25 pls. & 16 figs. 1908.1

Fishes, p. 502–515.

Predieri, *P.* Sulla generazione delle anguille; lettera al Dott. Garbiglietti. Giorn. R. Accad. Med. Torino, 1872, 3. ser. **11**, 43–48. 1872.1

Pregl, *Fritz.* Ueber die Eihäute von *Scyllium stellare* Günth. und ihre Abbauprodukte. Zeitschr. Physiol. Chem., Strasburg, 1908, **56**, 1–10. 1908.1

Preisser, *F.*, & **Girardin,** *J.* *See* **Girardin** & **Preisser.**

Prenant, *A.* Notes cytologiques. VI. Formations particulières dans le tissu conjonctif interstitiel du muscle vésical du brochet [*Esox lucius* L.] VII. Contribution à l'étude de la ciliation. Striation et ciliation de la partie adhérente du *Myxidium lieberkühni.* Arch. Anat. Micr., 1902, **5**, 191–212. pl. & 7 figs. 1902.1

Myxosporides dans la vessie urinaire du brochet.

—— Sur des corps particuliers situés dans le tissu conjonctif d'un muscle lisse. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 809–810. 1902.2

Matériel: *Esox lucius.*

Prenthun, *J.* Oerretfiske i ström og indvand. 7. Hefte. Christiania, 1905. 8°. 1905.1

Prentiss, *Henry M.* Return of salmon planted in Penobscot river. Bull. U. S. Fish Comm. 1881 (1882), **1**, 273. 1882.1

Preobrajensky, *J. A.* Ueber einige Vertreter der Familie Psammosteidæ Ag. [Text in Russian] Sitzber. Naturf. Ges. Univ. Jurjev, 1911, **19**, 21–36. 2 pls. 1911.1

A dorsomedian plate of *Psammosteus paradoxus* is figured under the designation of *Dyptychosteus tesselatus*, gen. et sp. nov. One of *Ceraspis carinata* is figured under the name of *Psammosteus imperfectus.*

Presas, *Mánuel.* Historia natural en Cuba [Peces] Anal. Inst. Segunda Enseñ. Habana, 1895–96, **2**, 355–357. 1896.1

Prescott, *William.* Descriptions of new species of fishes. Amer. Journ. Sci., 1851, 2. ser. **11**, 340–345. 1851.1

Pressel, *W.* Die Fischzucht im Kleinbetrieb; aus der Praxis für die Praxis. Stuttgart, 1902. viii, 69 p. 8°. 1902.1

—— Ueber den Erfolg des Einsatzes der Regenbogenforelle in den Neckar. Allgem. Fischerei Zeitg., 1906, **31**. Jahrg., 448–449. 1906.1

Prestwich, (*Sir*) *Joseph* [1812–1896] For biography *see* his life by Lady Grace Anne Prestwich. Edinburgh & London, 1899. xiv, 444 p. 18 pls. 8°.

—— On the structure of the Crag beds of Suffolk and Norfolk, with some observations on their organic remains. Quart. Journ. Geol. Soc., 1871, **27**, 115–146. pl. 1871.1

Fish remains, p. 132. Carcharodon, Otodus, Raja, Zygbotatis, Platax.

Prévost, *Constant.* Sur une ichthyolite des rochers des Vaches-Noires. Bull. Soc. Philom. Paris, 1824, 41–42. — Ann. Sci. Nat. (*Zool.*), **3**, 243–244. 1824.1

Elops macropterus Blv. du Lias.

—— Observations sur les schistes calcaires oolitiques de Stonesfield en Angleterre, dans lesquels ont été trouvés plusieurs ossemens fossiles de mammifères. Ann. Sci. Nat. (*Zool.*), 1825, **4**, 389–417. 2 pls. & figs. 1825.1

Plate xviii & figs. 5, 9, 10, 11–18, 21 are of fish teeth.

—— De la génération chez le sechot (*Mullus gobio*) Mém. Soc. Phys. Hist. Nat. Genève, 1828, **4**. 1828.1

Preyer, *Carl.* Fisheries and fishery laws in Austria and the world in general. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 571–679. 1876.1

Price, *George C.* Some points in the development of a myxinoid (*Bdellostoma stouti* Lockington) Verh. Anat. Ges., Anat. Anz., 1896, **12**, 81–86. 1896.1

—— Zur Ontogenie eines Myxinoiden (*Bdellostoma stouti* Lockington) Sitzber. Bayer. Akad. Wiss., math.-nat. Cl., 1896, **26**, 69–74. 1896.2

—— Development of the excretory organs of a myxinoid, *Bdellostoma stouti* Lockington. Zool. Jahrb., Jena, 1897, **10**, 205–226. 2 pls. 1897.1

—— A further study of the development of the excretory organs in *Bdellostoma stouti.* Amer. Journ. Anat., 1904, **4**, 117–138. 31 figs. 1904.1

—— The structure and function of the adult headkidney of *Bdellostoma stouti.* Journ. Exper. Zool., 1910, **9**, 849–864. 4 figs. 1910.1

Price, *Rose.* Fishing in the McCloud river. Rod & Gun, 1875, **6**, 362. 1875.1

—— Salmon scores from the McCloud river. Forest & Stream, 1875, **5**, 54. 1875.2

—— Californian salmon. Fish. Gazette, 1879, **3**, 181. 1879.1

Prichard, *H.* The English grayling. Forest & Stream, 1875, **4**, 59. 1875.1

Priem, *Fernand.* Sur des dents de poissons du Crétacé supérieur de France. Bull. Soc. Géol. France, 1896, 3. sér. **24**, 288–295. pl. 1896.1

—— Sur les poissons de la craie phosphatée des environs de Péronne. Bull. Soc. Géol. France, 1896, 3. sér. **24**, 9–23. 2 pls. 1896.2

—— Note sur Propristis Dames du Tertiaire inférieure d'Egypte. Bull. Soc. Géol. France, 1897, 3. sér. **25**, 228–232. 3 figs. 1897.1

—— Les poissons fossiles de l'Eocène du Mokattam. Bull. Inst. Egypt., Caire, 1897, 3. sér. **8**, 157–159. 1897.2

—— Sur des dents d'élasmobranches de divers gisements sénoniens (Villedieu, Meudon et Folx-les-Caves) Bull. Soc. Géol. France, 1897, 3. sér. **25**, 40–56. pl. 1897.3

—— Sur les poissons de l'Eocène du mont Mokattam (Egypte) Bull. Soc. Géol. France, 1897, 3. sér. **25**, 212–227. pl. 1897.4

—— Sur des pycnodontes et des squales du Crétacé supérieur du bassin de Paris (Turonien, Sénonien, Montien inférieur) Bull. Soc. Géol. France, 1898, 3. sér. **26**, 229–243. pl. 1898.1

—— Sur la faune ichthyologique des assises montiennes du bassin de Paris et en particulier sur *Pseudolates heberti* (Gervais) Bull. Soc. Géol. France, 1898, 3. sér. **26**, 399–412. 2 pls. 1898.2

—— Sur des poissons fossiles de l'Eocène d'Egypte. Bull. Inst. Egyptien, Caire, 1899, 3. sér. **10**, 101–103. 1899.1

—— Sur des poissons fossiles éocènes d'Egypte et de Roumanie, et rectification relative à *Pseudolates heberti* (Gervais) Bull. Soc. Géol. France, 1899, 3. sér. **27**, 241–252. pl. 1899.2

—— L'"Helicoprion," reste d'un poisson fossile découvert en Russie. La Nature, 1900, **28**, 121–122. 3 figs. 1900.1

—— Sur les poissons fossiles du gypse de Paris. Bull. Soc. Géol. France, 1900, 3. sér. **28**, 841–860. 2 pls. 1900.2

—— Sur les poissons de l'Eocène inférieur des environs de Reims. Bull. Soc. Géol. France, 1901, 4. sér. **1**, 477–504. 2 pls. & 10 figs. 1901.1

—— Sur des pycnodontes tertiaires du département de l'Aude. Bull. Soc. Géol. France, 1902, 4. sér. **2**, 44–49. 2 figs. 1902.1

—— Sur les poissons fossiles des phosphates d'Algérie et de Tunisie. Bull. Soc. Géol. France, 1903, 4. sér. **3**, 393–406. pl. & 3 figs. 1903.1

—— Description de *Cœlodus anomalus*, sp. nov. Communic. Trabal. Geol. Portugal, 1904, **6**, 52–53. fig. 1904.1

—— Description de *Cœlodus morgani*, sp. nov. (In De Morgan, J. Mission scientifique en Perse, vol. iii, pt. 4, p. 285–286. pl. Paris, 1904) 1904.2

—— Sur les poissons du Bartonien et les siluridés et acipenseridés de l'Eocène du bassin de Paris. Bull. Soc. Géol. France, 1904, 4. sér. **4**, 42–47. 8 figs. 1904.3

—— Sur les poissons fossiles des terrains tertiaires supérieurs de l'Hérault. Bull. Soc. Géol. France, 1904, 4. sér. **4**, 285–294. 12 figs. 1904.4

—— Sur des poissons fossiles de l'Eocène moyen d'Egypte. Bull. Soc. Géol. France, 1905, 4. sér. **5**, 633–641. 14 figs. 1905.1

—— Sur les otolithes des poissons éocènes du bassin parisien. Bull. Soc. Géol. France, 1906, 4. sér. **6**, 265–280. 51 figs. 1906.1

—— Sur les poissons fossiles du Stampien du bassin parisien. Bull. Soc. Géol. France, 1906, 4. sér. **6**, 195–205. pl. & 11 figs. 1906.2

—— Note sur les poissons fossiles de Madagascar. Bull. Soc. Géol. France, 1907, 4. sér. **7**, 462–465. 8 figs. 1907.1

—— Poissons tertiaires des possessions africaines du Portugal. Communic. Trabal. Geol. Portugal, 1907, **7**, 74–79. 2 pls. 1907.2

—— Rectifications de nomenclature [Poissons] Rev. Critique Paléozool., Paris, 1907, **11**, 268. 1907.3

—— Sur des poissons fossiles tertiaires des colonies portugaises d'Afrique. Communic. Trabal. Geol. Portugal, 1907, **7**, 74–79. 2 pls. 1907.4

—— Sur des vertébrés de l'Eocène d'Egypte et de Tunisie. Bull. Soc. Géol. France, 1907, 4. sér. **7**, 412–419. 2 pls. & 2 figs. 1907.5

—— Etude des poissons fossiles du bassin parisien. Mémoire couronné par l'Institut. Annal. Paléontol., 1908. 144 p. 5 pls. 8°. 1908.1

—— Etude sur le genre Lepidotus. Annal. Paléontol., 1908, **3**, 1–19. 2 pls. 1908.2

—— Poissons fossiles de Perse. Délégation en Perse, Annales publiées sous la direction de J. de Morgan, Paris, 1908, 1–25. 3 pls. 1908.3

—— Sur des vertébrés de l'Eocène d'Egypte. Bull. Inst. Egypt., Caire, 1908, 4. sér. **2**, 1–3. 1908.4

—— Note sur des poissons fossiles des phosphates de Tunisie et d'Algérie. Bull. Soc. Géol. France, 1909, 4. sér. **9**, 315–324. 46 figs. 1909.1

—— Sur un pycnodonte du Sénonien supérieur de Tunisie [*Cœlodus bursauxi*, sp. nov.] Bull. Soc. Géol. France, 1909, 4. ser. **9**, 324–326. fig. 1909.2

—— Etude des poissons fossiles du bassin parisien (Supplement) Annal. Paléontol., 1911, **6**, 1–44. 5 pls. & 42 figs. 1911.1

—— Sur des otolithes de poissons fossiles des terrains tertiaires supérieurs de France. Bull. Soc. Géol. France, 1911, 4. sér. **11**, 39–46. 9 figs. 1911.2

—— Sur des poissons et autres fossiles du Silurien supérieur du Portugal. Communic. Trabal. Geol. Portugal, 1911, **8**, 1–10. 2 pls. 1911.3

—— Poissons fossiles de la république Argentine. Bull. Soc. Géol. France, 1912, 4. sér. **11**, 329–340. 2 pls. & 4 figs. 1912.1

—— Sur des otolithes éocènes de France et d'Angleterre. Bull. Soc. Géol. France, 1912, 4. sér. **12**, 246–249. 12 figs. 1912.2

—— Sur des poissons fossiles des terrains secondaires du sud de la France. Bull. Soc. Géol. France, 1912, 4. sér. **12**, 250–271. 2 pls. & 6 figs. 1912.3

—— Sur les poissons fossiles des terrains tertiaires supérieurs du sud de la France. Bull. Soc. Géol. France, 1912, 4. sér. **12**, 213–244. 2 pls. & 23 figs. 1912.4

—— Sur les otolithes de l'Eocène du Cotentin et de Bretagne. Bull. Soc. Géol. France, 1913, 4. sér. **13**, 151–158. 13 figs. 1913.1

—— Sur les poissons fossiles des phosphates remaniés du Rethélois. Bull. Soc. Géol. France, 1913, 4. sér. **13**, 159–162. 1913.2

—— Sur des otoliths de poissons fossiles des terrains tertiaires supérieurs du sud-ouest de la France. Bull. Soc. Géol. France, 1914, 4. sér. **14**, 244–278. figs. 1914.1

—— Sur des vertébrés du Crétacé et de l'Eocène d'Egypte. Bull. Soc. Géol. France, 1914, 4. sér. **14**, 366–382. pl. & figs. 1914.2

—— Sur les poissons fossiles des terrains tertiaires supérieurs du sud-ouest de la France (Note complémentaire) Bull. Soc. Géol. France, 1914, 4. sér. **14**, 119–131. pl. & figs. 1914.3

Priesbergen, *F.* Die Ekto- und Entoparasiten, von welchen die in der Umgebung von Tübingen lebenden Fische bewohnt werden. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1886, 73–88. pl. 1886.1

Prime, *William C.* Tenacity of life in pickerel. Forest & Stream, 1876, **7**, 154. 1876.1

Primrose, *B. F.* Paper by the secretary of the board of fisheries on drift net and trawl net fishing for herrings. Edinburgh, 1852. 1852.1

Prince, *Edward E.* On the development of the food fishes at the St. Andrews Marine Laboratory. Rept. Brit. Assoc. Adv. Sci., 65. meet., 1885, 1091–1093. 1885.1

—— On the nest and development of *Gasterosteus spinachia* at the St. Andrews Marine Laboratory. Ann. Mag. Nat. Hist., 1885, 5. ser. **16**, 487–496. pl. 1885.2

—— Early stages in the development of the food-fishes. Ann. Mag. Nat. Hist., 1886, 5. ser. **17**, 443–461. 1886.1

—— On the presence of oleaginous spheres in the yolk of teleostean ova. Ann. Mag. Nat. Hist., 1886, 5. ser. **18**, 84–90. 1886.2

Prince, *E. E.*

—— Points in the development of the pectoral fin and girdle in teleosteans. Rept. Brit. Assoc. Adv. Sci., 66. meet., 1886, 697–698. 1886.3

—— On the development of the ovary and oviduct in certain osseous fishes. Rept. Brit. Assoc. Adv. Sci., 67. meet., 1887, 769. 1887.1

—— The significance of the yolk in the eggs of osseous fishes. Ann. Mag. Nat. Hist., 1887, 5. ser. **20**, 1–8. pl. 1887.2

—— Neptune's nursery. A summary of the eggs and life-history of fishes. Parts 1 and 2. National Observer, 1890. 1890.1

—— On the morphology and development of the pectoral fins in teleostean fishes. Elizabeth Thompson Research. Glasgow, 1890. 2 pls. 1890.2

—— Survey of the fishing grounds off the west coast of Ireland. On certain post-larval fishes collected during the early part of the survey [n. pl.] 1890. pl. 1890.3

—— Notes on the development of the angler-fish (*Lophius piscatorius*) 9. Ann. Rept. Fishery Board Scotland, 1891, pt. 3, 343–348. 2 pls. 1891.1

—— On the eggs and larvæ of *Callionymus lyra*, the dragonet. 9. Ann. Rept. Fishery Board Scotland, 1891, pt. 3, 349–351. pl. & 4 figs. 1891.2

—— Curious protective features in the young of vertebrates. Ann. Anderson Nat. Hist. Soc., Glasgow, 1892, 110–117. 1892.1

—— The development of the pharyngeal teeth in the Labridæ. Rept. Brit. Assoc. Adv. Sci., 62. meet., 1892 (1893), 773. 1893.1

—— On the formation of argenteous matter in the integument of teleosteans. Rept. Brit. Assoc. Adv. Sci., 62. meet., 1892 (1893), 772–773. 1893.2

—— Description of specimens of sea-trout, caplin and sturgeon from Hudson bay. Rept. Brit. Assoc. Adv. Sci., 66. meet., 1896, 687–688. 1896.1

—— On the Esocidæ (or Luciidæ) of Canada. Rept. Brit. Assoc. Adv. Sci., 66. meet., 1896, 688. 1896.2

—— The living Chimæra and its egg. Ottawa Naturalist, 1897, **10**, 185–189. 1897.1

—— Change of function in fishes' fins. Ottawa Naturalist, 1898, **12**, 129–132. 1898.1

—— On the treatment and planting of salmonoid fry. 30. Ann. Rept. Dept. Mar. & Fish., Ottawa 1897 (1898), xl–xliv. 1898.2

—— The propagation of black bass. 30. Ann. Rept. Dept. Mar. & Fish., Ottawa 1897 (1898), xlv–xlviii. 1898.3

—— The food of the sturgeon. 31. Ann. Rept. Dept. Mar. & Fish., Ottawa 1898 (1899), lv–lx. 1899.1

—— Fish-culture in Canada. Trans. Ottawa Lit. Scient. Soc., 1900, no. 2, 165–182. 1900.1

—— Powers of adaptation in fishes. Ottawa Naturalist, 1901, **14**, 212–217. 1901.1

—— Special report on I. The hatching and planting of trout. II. The planting of predaceous fish. III. The aim and method of fishing legislation. 34. Ann. Rept. Dept. Mar. & Fish., Ottawa, 1901. 1901.2

—— The swim-bladder of fishes a degenerate gland. Proc. Trans. Nova Scotian Inst. Nat. Sci., 1906, **11**, 199–226. 4 pls. 1906.1

—— The eggs and early life-history of the herring, gaspereau, shad and other clupeoids. 39. Ann. Rept. Dept. Mar. & Fish., Ottawa, 1907, 95–110. 3 pls. 1907.1

—— The biological investigation of Canadian waters, with special reference to the government biological stations. Trans. Roy. Soc. Canada, 1908, 3. ser. **1**, 71–92. 1908.1

Northern and southern species in the gulf waters, p. 73–74. Banks of the gulf and Atlantic shore, p. 77–78.

—— The fish and fisheries of Manitoba. Handbook Brit. Assoc. Adv. Sci., 1909, 228–237. 1909.1

—— Fish: some thoughts on Canadian fisheries and the Canadian public. An address to the Canadian Club of Regina, Saskatchewan. Leeds, 1910. 9 p. 8°. 1910.1

—— Fisheries work in St. Andrews University. Memorial vol., Scientific Papers, 1911, **2**. 1911.1

—— A perfect fish pass. Trans. Amer. Fisheries Soc. 1913 (1914), 47–56. 1914.1

—— Some animals and conditions inimical to fish eggs and larvæ in the sea. Trans. Amer. Fisheries Soc. 1913 (1914), 57–66. 1914.2

—— The herring fishery of Canada. Comm. Conserv. Canada, Proc. Committee Fisheries, Game, Fur-bearing Animals, Toronto, 1916, 37–46. 1916.1

—— On the red color of the flesh in the salmons and trouts. Trans. Amer. Fisheries Soc., 1916, **46**, 50–61. 1916.2

—— Unutilized fisheries resources of Canada. Comm. Conserv. Canada, Proc. Committee Fisheries, Game, Furbearing Animals, Toronto, 1916, 47–64. 2 pls. 1916.3

Prince, *Edward E.,* & **Halkett,** *Andrew.* The eggs of the freshwater ling [*Lota maculosa* Lesueur] Ottawa Naturalist, 1906, **19**, 219–224. 1906.1

Prince, *Edward E.,* & **M'Intosh,** *William Carmichael. See* **M'Intosh** & **Prince.**

Prince, *Edward E.,* & **MacKay,** *A. H.* The paired fins of the mackerel shark. 32. Ann. Rept. Dept. Mar. & Fish., Ottawa, 1901 (Suppl.), 55–58. 3 pls. 1901.1

Prince, *Edward E.,* & **Steven,** *J. Lindsay.* On two large tumours in a haddock and a cod. 10. Ann. Rept. Fishery Board, Canada, 1892, pt. 3, 323–325. 1892.1

Prince, *Thomas.* A chronological history of New England; in the form of annals, etc. Boston, 1826. 1826.1

The first edition of this work was published in 1736. It contains an account of New England fisheries.

Pringle, *John.* A discourse on the torpedo, delivered at the anniversary meeting of the Royal Society, Nov. 30, 1774. London, 1775. 32 p. 4°. 1775.1

—— Discours sur la torpille. Observ. Mém. Phys., 1775, **5**, 241–257; 444–449. 1775.2

—— De torpedine. 2 vols. Wittebergæ & Lipsiæ, 1779. 4°. 1779.1

Pritchard, *G. B.,* & **Chapman,** *Frederick. See* **Chapman** & **Pritchard.**

Pritt, *T. E.* The book of the grayling. Being a description of the fish and the art of angling for him, as practiced chiefly in the midlands and the north of England. Leeds, 1888. 64 p. illust. 8°. 1888.1

Probst, *Josef.* Ueber das Gebiss des *Notidanus primigenius* Ag. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1858, **14**, 124–127. 10 figs. 1858.1

—— Ueber die Streifung der fossilen Squalidenzähne. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1859, **15**, 100–102. 1859.1

—— Beitrag zur Kenntniss der fossilen Fische aus der Molasse von Baltringen [Labroiden, Scarinen, Sparoiden] Jahresh. Ver. Vaterl. Naturk. Württemberg, 1874, **30**, 275–298. *Ibid.*, 1877, **33**, 69–103. *Ibid.*, 1878, **34**, 113–154. *Ibid.*, 1879, **35**, 127–191. *Ibid.*, 1882, **38**, 116–136. pl. 1874.1

—— Ueber die Haifischreste der Meeresmolasse Oberschwabens. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1876, **32**, 51–55. 1876.1

—— Fossile Wirbel von Haien und Rochen aus der Molasse von Baltringen. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1886, **42**, 301–315. pl. 1886.1

Procházka, *Vladimir Josef.* Miocén moravský; druhý příspěvek ku poznání rázu zvířeny mořských slínů a jílů severo-západo- a středomoravské oblasti. Sitzber. Böhm. Ges. Wiss., Prag, 1899, no. 29, 1–45. 1900.1

Listen von fossilen Fischen aus dem Miocän von Mähren.

—— Das ostböhmische Miocän. Arch. Nat. Durchforsch. Böhmen, 1900, no. 2, 1–173. 72 figs. 1900.2

Fossil otoliths are described.

Procter, *George H.* Fishermen's memorial and record book. Gloucester, 1873. 88 p. 1873.1

—— The fisheries of Gloucester from the first catch of the English in 1623 to the centennial year, 1876. Gloucester [1876?] 88 p. illust. 8°. 1876.1

—— Fishermen's own book. Gloucester, 1882. 274 p. 1882.1

Contains information concerning the fisheries of Gloucester and the methods of carrying on the fisheries in the earlier days. More valuable as a reference work than as a history of the fisheries.

Proctor, *Ernest.* Notes on the discovery of fossiliferous Old Red Sandstone rocks in a boring at Southall, near Ealing. Quart. Journ. Geol. Soc., 1913, **69**, 78–81. 1913.1

Appendix. Note on the fish-remains from the Upper Devonian, by Arthur Smith Woodward. *Ibid.*, 81–84. pl. Holoptychius and Bothriolepis remains.

Prohaska, —— Ueber die Verhältnisse der Binnenfischerei Oesterreichs. Oesterr.-ungar. Fischerei Zeitg., 1880, 1–2; 9–11. 1880.1

—— Ueber Oesterreichs brachliegendes Wassergebiet. Oesterr.-ungar. Fischerei Zeitg., 1880, 17–21. 1880.2

Proli, *P. P.* Della citta di Commacchio, delle sue laghune e pesche. Cesena, 1761. fol. 1761.1

Prometheus (*pseudon.*) Aalblut und Viperngift. Blätt. Aquar.-Terrar. Freunde, 1899, 10. Jahrg., 218. 1899.1

—— Ein neuer Rundmäuler mit grossen normalen Augen wurde von L. Plate im Süden von Chile entdeckt. Blätt. Aquar.-Terrar. Freunde, 1899, 10. Jahrg., 176. 1899.2

Pron, *L.*, & **Bounhiol,** *J. P.* *See* **Bounhiol** & **Pron.**

Proschowsky, *A. R.* L'utilisation des blattes pour l'alimentation des poissons. Bull. Soc. Acclim. Paris, 1901, **49**, 320. 1901.1

Prosser, *Charles Smith* [1860–1916] Classification and distribution of the Hamilton and Chemung series of central and eastern New York. 51. Ann. Rept. New York State Mus. 1897 (1899), **2**, 65–315. 27 pls. & 32 figs. 1899.1

Appendix: Upper Devonian fish-fauna of Delaware county, New York, by C. R. Eastman, p. 317–328. 6 figs.

Dinichthys, Holoptychius, Onychodus, Onchus, Bothriolepis, Dipterus scales.

Prouty, *Lorenzo.* Fish; their habits and haunts, etc. Boston, 1883. 115 p. 1883.1

Provazek, *F.* Das Auge der Plattfische. Blätt. Aquar.-Terrar. Freunde, 1900, 11. Jahrg., 32–33. fig. 1900.1

—— Beitrag zur Pigmentfrage. Zool. Anz., 1900, **23**, 477–480. 1900.2

Provençal, ——, & **Humboldt,** *F. H. A. von.* Recherches sur la respiration des poissons. Mém. Phys. Chim. Soc. Arcueil, Paris, 1809, **2**, 359–404.— Journ. Phys. (Rozier), **69**, 261–286.— Journ. Chem. Phys. (Schweigger), **1**, 86–121. 1809.1

Prudhomme, —— Sur la vessie des poissons. Rapp. Gén. Trav. Acad. Caen, 1811, 84–86. 1811.1

Prugnes, *Robert Villatte des.* *See* **Villatte des Prugnes,** *Robert.*

Prymak, *Teodor.* Beiträge zur Geschichte der Entwickelung und Involution der Thymusdrüse bei den Knochenfischen [Text in Ruthenian] Zbirn. Sekc. Matem.-Prírod.-Likarsk., Lemberg, 1901, **7**, pt. 2, 1–26. 1901.1

—— Beiträge zur Kenntniss des feineren Baues und der Involution der Thymusdrüse bei den Teleostiern. Anat. Anz., 1902, **21**, 164–177. 2 figs. 1902.1

—— Ein Beitrag zur Kenntnis der Thymusdrüse bei den Knochenfischen mit Berücksichtigung der Ganoiden und Cyclostomen [Text in Ruthenian] Zbirn. Sekc. Matem.-Prírod.-Likarsk., Lemberg, 1902, **8**, pt. 2, 1–11. 1902.2

—— Recherches sur l'évolution et l'involution du thymus chez les poissons osseux [Text in Ruthenian] Kosmos, Lwów Roczn., 1903, **28**, 179–204. pl. 1903.1

Prymak, *Teodor,* & **Nusbaum,** *Józef.* *See* **Nusbaum** & **Prymak.**

Prytz, *Lars Johan.* Anteckningar under en resa till Nord Cap, genom Torneå Lappmark och vestra Finnmarken, år 1819. Mnemosyne, Abo, 1821, 129–160; 178–192. 1821.1

Pisces, p. 186.

Przhevalskiĭ, Nikolaĭ Mikhailovich [1839–1880] Mongolia and the Tagut country, or three years' journey in the eastern highlands of Asia. 2 vols. St. Petersburg, 1875–76. illust. 8°. 1875.1

—— Wissenschaftliche Resultate der von N. M. Przevalski nach Central-Asien unternommenen Reise. Zoologischer Theil. St. Petersburg, 1888–98. 1888.1

Bd. iii, Abt. 2. Fische, von S. M. von Herzenstein. 1889–96.

Przibram, *Hans.* Experimentale Zoologie. 2. Teil. Regeneration. Leipzig, 1909. 1909.1

—— Die Verteilung formbildender Fähigkeiten am Tierkörper in dorsoventraler Richtung. Arch. Entw.-Mech., 1910, **30**, 409–417. 4 figs. 1910.1

Przibram, *Hans,* & **Grosser,** *Otto.* *See* **Grosser** & **Przibram.**

Puci, *Giacomo Mario,* & **Miranda,** *Dominico da.* *See* **Miranda** & **Puci.**

Puenta y Olca, *P. de la.* Informa sobre la pesca en la Gran Canaria y en los bancos de Africa. Madrid, 1885. 31 p. 8°. 1885.1

Puenzieux, *Ad.* Die Aufgabe des Staates bei der Wiederbereicherung der Gewässer mit Fischen. Zentralbl. Jagd-, Hundeliebhaber & Fischereiwesen, 1891, **7**, 203; 212. *Ibid.*, 1892, **8**, 6; 30; 46; 54; 71. Also separate; St. Gallen, 1891–92. 5 p. fol. 1891.1

—— Du réempoissonnement de nos cours d'eau par la pisciculture pratique. Lausanne, 1891. 8 p. 8°. 1891.2

—— Le rôle de l'état dans le réempoissonnement des cours d'eau. Lausanne, 1891. 28 p. 8°. 1891.3

—— La loutre dans le canton de Vaud en 1893. Lausanne, 1894. 5 p. 8°. 1894.1
The otter, predatory on fish.

Pütter, *August.* Leuchtende Organismen. Zeitschr. Allgem. Physiol., Jena, 1905, **5**. 1905.1

—— Die Ernährung der Fische. Zeitschr. Allgem. Physiol., Jena, 1909, **9**, 147–242. 1909.1

Pugh, *Ernst.* *Fundulus guentheri* Pfeffer und seine Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 639–641. 2 figs. 1914.1

Pugliesi, *Emma.* Il cranio della *Lucioperca sandra* Cuv. Morfologia e studi comparativi. Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1911, **49**, 278–296. 2 pls. & fig. 1911.1

Punnett, *R. C.* On the formation of the pelvic plexus, with especial reference to the nervus collector, in the genus Mustelus. Phil. Trans. Roy. Soc. London, 1900, **192**, 331–352. pl. Abstracts in Proc. Roy. Soc. London, **65**, 445–446. — Zool. Anz., **23**, 14–15. 1900.1

—— On the composition and variations of the pelvic plexus in *Acanthias vulgaris*. Proc. Roy. Soc. London, 1901, **68**, 140–142. *Ibid.*, 1902, **69**, 2–26. 7 figs. Abstract in Zool. Anz., **24**, 233–235. 1901.1

—— Cephalochorda. Note on meristic variation in the group (In The fauna and geography of the Maldive and Laccadive archipelago, edited by J. S. Gardiner, vol. ii, p. 361–367. London, 1903) 1903.1

—— Merism and sex in *Spinax niger*. Biometrika, Cambridge, 1904, **3**, 313–362. pl. 1904.1

Purkyně, *Cyrillv.* Das Nýřaner und Radnitzer Kohlenflötz bei Třemošná. Bull. Intern. Acad. Sci. Prague, 1903, 7. année, 216–230. pl. 1903.1

Purvis, *George C.* Note on certain terminal organs resembling touch-corpuscles or end-bulbs in intra-muscular connective-tissue of the skate. Quart. Journ. Micr. Sci., 1890, n. s. **30**, 515–517. pl. 1890.1

—— On the pineal eye of *Lamna cornubica*, or porbeagle shark. Proc. Phys. Soc. Edinburgh 1890–91 (1892), 62–67. pl. 1892.1

Putnam, *Frederick Ward* [1839–1915] For biographical notice, *see* that read before the Essex Institute by E. S. Morse, and printed at Salem, 1915. For bibliography, *see* Putnam anniversary volume, 1909.

—— On the fishes of Essex county. Proc. Essex. Inst., 1856, **1**, 144–146; 148; 201. 1856.1

—— Remarks on the coloration of fishes. Proc. Essex Inst., 1859, **2**, 366. 1859.1

—— Remarks on the nests of fishes. Proc. Essex Inst., 1859, **2**, 367–368. 1859.2

—— Annual report, department of ichthyology. Proc. Boston Soc. Nat. Hist. 1859–61 (1861), **7**, 280. 1861.1

—— *Esox fasciatus.* Proc. Boston Soc. Nat. Hist. 1859–61 (1861), **7**, 156. 1861.2

—— Fishes from the Sandwich islands. Proc. Boston Soc. Nat. Hist. 1859–61 (1861), **7**, 151. 1861.3

—— On the young of Pomotis, Bryttus and Esox. Proc. Boston Soc. Nat. Hist. 1859–61 (1861), **7**, 3; 34. 1861.4

—— A word on the fishes of the Bahamas. Proc. Boston Soc. Nat. Hist. 1859–61 (1861), **7**, 85. 1861.5

—— List of the fishes sent by the museum to different institutions, in exchange for other specimens, with annotations. Bull. Mus. Comp. Zool. Harv. Coll., 1863, **1**, 2–16. 1863.1

—— Distribution of the freshwater fishes of North America. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 178. 1865.1

—— Note on the codfish of Massachusetts. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 319. 1865.2

Putnam, *F. W.*

—— Note on the young of Belone. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 334. 1865.3

—— On a specimen of *Grystes fasciatus* from Boston harbors. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 224–248. 1865.4

—— On the genus Belone; specimen of the young. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 325–326. 1865.5

—— On the ichthyological fauna of the Great Lakes compared with the Richardson chain of lakes. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 181. 1865.6

—— On the limits of the freshwater faunæ of the United States as shown by the fishes. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 178. 1865.7

—— On the presence of pectoral fins in the young of *Achirus lineatus*. Proc. Essex Inst., 1865, **4**, 49–50; 99. 1865.8

—— On two species of chromids from the Rio Negro, which develop their eggs in their mouths. Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 226. 1865.9

—— Fishes of the Milwaukee river and the northern lakes. Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10**, 64–65. 1866.1

—— The ichthyological fauna of the Great Lakes and the variability and abundance of the whitefish (Coregonus) Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10**, 240. 1866.2

—— Malformation of snout of fishes. Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10**, 68. 1866.3

—— Note on young garpike presented to the society. Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10**, 211. 1866.4

—— Observations on the Pleuronectidæ. Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10**, 181. 1866.5

—— Remarks on Amphioxus. Proc. Boston Soc. Nat. Hist., 1864–66 (1866), **10**, 68. 1866.6

—— Remarks on a supposed nondescript species of Gasterosteus from Massachusetts. Proc. Essex Inst., 1866, **5**, 4. 1866.7

—— Report as curator of the department of ichthyology. Proc. Boston Soc. Nat. Hist. 1864–66 (1866), **10**, 132; 372. 1866.8

—— Appendix to Storer's fishes of Massachusetts (In Storer, D. H. A history of the fishes of Massachusetts, p. 278–280. Cambridge & Boston, 1867) 1867.1

—— On the Salmo of Halifax, a paper read before the Essex Institute. Amer. Naturalist, 1868, **1**, 107. 1868.1

—— Remarks on fishes and reptiles of Essex county, Mass. Bull. Essex Inst., 1869, n. s. **1**, 102. 1869.1

—— Report as curator of the department of ichthyology. Proc. Boston Soc. Nat. Hist. 1868–69 (1869), **12**, 17. 1869.2

—— Exhibition of a fish, *Hemirhamphus longirostris*, taken off Nantucket. Bull. Essex Inst., 1870, n. s. **2**, 12. 1870.1

—— Fishes of lake Champlain. Proc. Essex Inst., 1870, n. s. **2**, 6. 1870.2

—— On a species of Hemirhamphus from the millpond in Danvers, Mass. Bull. Essex. Inst., 1870, n. s. **2**, 171. 1870.3

—— On the young of *Orthagoriscus mola*. Proc. Amer. Assoc. Adv. Sci., 19. meet., 1870, 255–260. — Amer. Naturalist, 1871, **4**, 629–633. 1870.4

—— Remarks on the structure of fishes. Bull. Essex Inst., 1870, n. s. **2**, 110. 1870.5

—— Remarks on two specimens of interest which had been recently added to the Museum of Peabody Academy of Science. Bull. Essex Inst., 1870, n. s. **2**, 171–172. 1870.6

Species of Hemirhamphus.

—— Report on various zoological specimens collected from Chadwick's pond. Bull. Essex Inst., 1870, n. s. **2**, 91–93. 1870.7

Pickerel, shiners, dace, minnow, bream and perch.

—— Skates' [*Raja batis*] eggs and young. Amer. Naturalist, 1870, **3**, 617–630. 12 figs. 1870.8

—— Note on the classification of fishes by Prof. Cope. Amer. Naturalist, 1871, **5**, 593. 1871.1

—— Note on the occurrence of *Euleptorhamphus* [*Hemirhamphus*] *longi-*

rostris on the coast of Massachusetts. Proc. Boston Soc. Nat. Hist. 1869–71 (1871), **13**, 236–240. 1871.2

—— Note on the *Pimelodus cyclopum* of Humboldt. Amer. Naturalist, 1871, **5**, 694–695. — Bull. Essex Inst., 1871, n. s. **3**, 170–178. 1871.3

—— Peculiar fishes belonging to the genera of Tetraodon and Diodon. Bull. Essex Inst., 1871, n. s. **3**, 29. 1871.4

—— Blind fishes of the Mammoth cave and their allies (In his and Packard, A. S. Mammoth cave and its inhabitants. Salem, 1872. 62 p. 8°) 1872.1

—— The blind fishes of the Mammoth cave, and their allies. Amer. Naturalist, 1872, **6**, 6–30. 2 pls. 1872.2

—— Case of voracity in an eel. Proc. Boston Soc. Nat. Hist. 1870–71 (1872), **14**, 135. 1872.3

—— The etheostomoids. Amer. Naturalist, 1872, **6**, 109–115. figs. 1872.4

—— The new Australian fish. Bull. Essex Inst., 1872, n. s. **3**, 40–41. 1872.5

—— On classification of fishes. Proc. Boston Soc. Nat. 1870–71 (1872), **14**, 189. 1872.6

—— On the alewives and other fishes collected in the Wenham lake. Bull. Essex Inst., 1872, **3**, 88–90. 1872.7

—— On the species of eels. Amer. Naturalist, 1872, **6**, 449. 1872.8

—— Remarks on a skate's egg. Bull. Essex Inst., 1872, n. s. **4**, 123–124. 1872.9

—— Synopsis of the family Heteropygii. Rept. Peabody Acad. Sci. 1871 (1872), 15–23. 1872.10

—— Young of the blind fish. Amer. Naturalist, 1872, **6**, 116–117. 1872.11

—— Account of the work of Prof. S. F. Baird, U. S. Fish Commissioner. Bull. Essex Inst., 1873, n. s. **5**, 151–152. 1873.1

—— Fishes of Chebacco pond, Essex, Mass. Bull. Essex Inst., 1873, n. s. **5**, 141–142. 1873.2

Pimelodus, Esox, Leuciscus, Perca, Labrax, Pomotis, Hololepis, Anguilla.

—— Remarks on toads and fishes. Bull. Essex Inst., 1873, n. s. **5**, 124. 1873.3

Verbal communication on bones of the skeleton.

—— The anatomy and varieties of Myxine. Pop. Sci. Review, 1874, **13**, 224. 1874.1

—— *Liparis lineata* and *Liparis montagui* from Massachusetts. Proc. Boston Soc. Nat. Hist. 1873–74 (1874), **16**, 114. 1874.2

—— Notes on Liparis, Cyclopterus and their allies. Abstract in Proc. Amer. Assoc. Adv. Sci., 22. meet., 1873 (1874), 335–340. 1874.3

—— Notes on Ophidiidæ and Fierasferidæ, with descriptions of new species from America and the Mediterranean. Proc. Boston Soc. Nat. Hist. 1873–74 (1874), 339–348. 1874.4

—— Notes on the genus Bdellostoma. Proc. Boston Soc. Nat. Hist. 1873–74 (1874), **16**, 127–135; 156–160. 1874.5

—— Notes on the genus Myxine. Proc. Boston Soc. Nat. Hist. 1873–74 (1874), **16**, 127–135. 1874.6

—— On the occurrence of *Chauliodus sloanii* Bl. on the Georges banks. Bull. Essex Inst., 1874, n. s. **6**, 3. 1874.7

—— Remarks on the family Nemophidæ. Proc. Boston Soc. Nat. Hist. 1873–74 (1874), **16**, 366–373. figs. 1874.8

—— Remarks on the tooth of a shark, Carcharias, presented by Rev. D. P. Noyes, of Pigeon cove. Bull. Essex Inst., 1874, n. s. **6**, 72. 1874.9

—— Several fishes, new or rare, from harbors in Essex county, Massachusetts. Bull. Essex Inst., 1874, n. s. **6**, 11–13. 1874.10

Cryptacanthodes inornatus, Liparis lineatus, Platessa glabra.

—— A straggler in the Ohio (*Gobiosoma molestum*) Amer. Naturalist, 1874, **8**, 233–234. 1874.11

—— The blind fish and some of the associated species of the Mammoth cave, Kentucky, probably of marine origin. Bull. Essex Inst., 1875, n. s. **6**, 191–200. — Ann. Mag. Nat. Hist., 4. ser. **16**, 79–80. — Amer. Journ. Sci., 3. ser. **9**, 409–410. 1875.1

—— Exhibition of living specimens of fishes and cray-fishes collected in the waters of Mammoth cave. Proc. Boston Soc. Nat. Hist. 1874–75 (1875), **17**, 222–225. 1875.2

Putnam, *F. W.*

—— Remarks on the male of the common eel (*Anguilla bostoniensis*) Proc. Boston Soc. Nat. Hist., 1878, **19**, 279–280. 1878.1

—— Presentation of specimens of *Chologaster agassizii* Putnam, from Mammoth cave, Kentucky. Proc. Boston Soc. Nat. Hist., 1880, **21**, 82. 1880.1

—— Putnam anniversary volume. Anthropological essays presented to Frederick W. Putnam in honor of his seventieth birthday April 16, 1909, by his friends and associates. New York, 1909. 627 p. 8°. 1909.1

The fish in ancient Peruvian art, by Charles W. Mead, p. 126–137.
Bibliography of Frederick W. Putnam, by (Miss) Frances H. Mead, p. 601–626.

Putnam, *Frederick Ward,* & **Garman,** *Samuel W.* On the male and female organs of the sharks and skates, with special reference to the use of claspers. Proc. Amer. Assoc. Adv. Sci., 23. meet., 1874, pt. 2, 143–144. 1874.1

Puvis, *A.* Des étangs, de leur construction, de leur produit et de leur dessèchement. Paris, 1844. 8°. 1844.1

Pybus, *W. Mark.* Sand eels. Rept. Northumberland Sea Fish. Comm. 1911 (1912), 86–88. 1912.1

Pychlau, *Waldemar.* Untersuchungen an den Brustflossen einiger Teleostier. Jena. Zeitschr. Naturw., 1908, **43**, 692–728. 3 pls. 1908.1

Pycraft, *William Plane* [1868 —] The story of fish-life. London, 1901. 210 p. pl. & 17 figs. (The library of useful stories) 1901.1

Review in Nature, **65**, 219–220.

—— Fishes (In The living animals of the world; a popular natural history. Vol. ii, book iv, p. 609–669. New York, 1902) 1902.1

There is also an English edition of this work, published a year or two previously.

—— Animal wind-bags. Useful and ornamental wind-bags and love-displays. Knowledge, 1903, **26**, 1–3; 40–44; 52–54. figs. 1903.1

Wind-bags as danger-signals and life-buoys in fishes.

—— Teeth and their substitutes. Nature's food crushers. Scient. Amer. Suppl., 1909, **68**, 204–205. 10 figs. 1909.1

—— (*editor*) Animal life: an evolutionary natural history. Edited by W. P. Pycraft, with introduction by E. Ray Lankester. 4 vols. London, 1910. illust. 1910.1

Vol. iii, Reptiles, amphibia, and fishes.

—— The infancy of animals. London, 1912. 64 p. illust. 8°. 1912.1

—— The courtship of animals. London, 1913. 318 p. 40 pls. 8°. 1913.1

Pycraft, *William Plane,* **Aflalo,** *F. C.,* **Bickerdyke,** *J.,* & **Maxwell,** (*Sir*) *H.* *See* **Aflalo, Bickerdyke** & others.

Pylaie, —— *de la.* Recherches en France sur les poissons de l'océan. Poitiers, 1834–35. 1834.1

Q

Quaas, *Arthur.* Die Fauna der Overwegischichten und der Blätterthone in der libyschen Wüste. Palæontographica, 1902, **30**, pt. 2, 153–334. 14 pls. 1902.1

Pisces, p. 312–320. The list includes Strophodus, Lamnidæ, Corax, Protosphyræna, Pycnodus, Plethodidæ, Sparidæ and Sclerodermidæ (Ancistrodon)

Quackenbos, *John Duncan.* The Sunapee saibling; a fourth New England variety of Salvelinus. Trans. N. Y. Acad. Sci., 1893, **12**, 139–151. — Trans. Amer. Fisheries Soc. 1893 (1894), 34–51. 1893.1

—— The American saibling, or golden trout. *Salvelinus sunapee* (Webber & Quackenbos, 1886) *Salvelinus aureolus* (Bean, 1888) *Salvelinus alpinus aureolus* (Jordan, 1891) 2. Ann. Rept. Comm. Fish., Game & Forests New York, 1896, 185–191. pl. 1896.1

Quackenbush, *L. S.* Larval conger eels on the Long Island coast. Science, 1906, n. s. **23**, 702–703. 1906.1

Quakernaat van Spijk, *A.* Eenige beschouwingen over onze zalmvisscherijen, naar aanleiding der gesloten overeenkomst te Mannheim, 27. November, 1869. Zalt-Bommel, 1870. 8°. 1870.1

—— Eenige opmerkingen naar aanleiding der brochure van den Heer Fr. P. L. Pollen. Zalt-Bommel, 1870. 8°. 1870.2

—— Einige Betrachtungen über unsere Lachsfischerei nach Anleitung der Uebereinkunft de dato Mannheim den 27. Nov. 1869. Circul. Deutsch. Fischerei Ver., 1871, no. 1, 24–31. 1871.1

Quantz, *H.* Störfischerei und Störzucht im Gebiete der deutschen Nordseeküste. Mitth. Deutsch. Seefischerei Ver., 1903, **19**, 176–204. 2 figs. 1903.1

Quatrefages, *Jean Louis Armand* [1810–1892] Mémoire sur les embryons des syngnathes [*Syngnathus ophidion* Linn.] Ann. Sci. Nat. (*Zool.*), 1842, 2. sér. **18**, 193–212. — Notizen (Froriep), 1842, **23**, 81–83. — C. R. Acad. Sci. Paris, 1842, **24**, 794–796. — Proc.-Verb. Soc. Philom. Paris, 1842, 52–53. 1842.1

—— Observations relatives aux jeunes blennies. C. R. Acad. Sci. Paris, 1843, **17**, 320. — L'Institut, **11**, 274–275. 1843.1

—— Observations sur le système nerveux et sur l'histologie du Branchiostoma ou Amphioxus. C. R. Acad. Sci. Paris, 1845, **21**, 519–522. — L'Institut, 1845, **13**, 309–310. — Ann. Sci. Nat. (*Zool.*), 1845, 3. sér. **4**, 197–248. 2 pls. — Neue Notizen (Froriep), 1846, **37**, 129–132. 1845.1

—— Des fécondations artificielles appliquées à l'élève des poissons. C. R. Acad. Sci. Paris, 1848, **27**, 413–416. 1848.1

—— Sur l'extraction de l'huile de harengs et sur la préparation du tangrum, engrais propre à remplacer le guano. C. R. Acad. Sci. Paris, 1848, **27**, 604–606. 1848.2

—— Le hareng. Rev. Deux Mondes, 1849, **1**, 22–54. 1849.1

—— Sur l'anatomie de *Ammocœtes branchialis.* Proc.-Verb. Soc. Philom. Paris, 1849, 64–65. — L'Institut, 1849, **17**, 220. 1849.2

—— Sur la reproduction artificielle des poissons. Journ. Pharm., 1851, **20**, 282–286. 1851.1

—— Mémoire sur le *Branchellio torpedinis* Sav. C. R. Acad. Sci. Paris, 1852, **35**, 809–815. 1852.1

—— Recherches sur la vitalité des spermatozoïdes de quelques poissons d'eau douce. Ann. Sci. Nat. (*Zool.*), 1853, 3. sér. **19**, 341–369. — C. R. Acad. Sci. Paris, **36**, 936–943. 1853.1

Brochet, carpe, gardon, perche.

—— Pisciculture; rapport sur le repeuplement des cours d'eau et sur les travaux de pisciculture de M. Millet; études sur la fécondation artificielle des œufs de poissons. Paris, 1854. 8°. 1854.1

Quatrefages, *J. L. A.*

—— Formation des monstres doubles chez les poissons. C. R. Acad. Sci. Paris, 1855, **40**, 626–629. — Ann. Mag. Nat. Hist., 2. ser. **16**, 47–51. 1855.1

—— Observations sur le mémoire de M. Coste, relatif à l'origine de la monstruosité double chez les poissons osseux. C. R. Acad. Sci. Paris, 1855, **40**, 924–930. 1855.2

—— Fertilité et culture de l'eau. 1862. Bull. Soc. Acclim. Paris, 1862, **19**, xlix–lxx. 1862.1

—— Des monstres doubles dans la classe des poissons. Bull. Soc. Anthropol. Paris, 1874, **9**, 318–320. 1874.1

—— Mémoire sur la monstruosité double chez les poissons. Mém. Centenaire Soc. Philom. Paris, 1888. 2 pls. 1888.1

Quekett, *John Thomas* [1815–1861] On a peculiar arrangement of blood-vessels in the air-bladder of fishes, with some remarks on the evidence which they afford of the true function of that organ. Ann. Mag. Nat. Hist., 1842, **10**, 65–66. — Trans. Micr. Soc., 1844, **1**, 99–108. 1842.1

—— On the intimate structure of bone, as composing the skeleton in the four great classes of animals, viz., mammals, birds, reptiles and fishes. Trans. Micr. Soc., 1849, **2**, 46–58. 1849.1

—— Observations on the nature of capillaries, and on the mode of arrangement of those in the gills of fishes. Trans. Micr. Soc., 1852, **3**, 1–8. 1852.1

—— On the scales of *Zoarces viviparus*. Trans. Micr. Soc., 1852, **3**, 136. 1852.2

Quelch, *John Joseph* [1854 —] Fish and fishing in British Guiana. Bull. U. S. Fish Comm. 1893 (1894), **13**, 237–240. 1894.1

—— The electric eel. Nature, 1897, **55**, 508. 1897.1

Describes a specimen 7 feet 2 inches long from the Waini river, British Guiana.

Quennerstedt, *August.* Bidrag till kännedomen om *Cyprinus buggenhagii* Bloch och dess förekomst inom Sverige. Oefvers. K. Vet. Akad. Förh., 1877, no. 7, 13–22. 2 pls. 1877.1

Quensel, *Conrad* [1767–1806] Försök att närmare bestämma och naturligare uppställa svenska arterna af flunderslägtet [Pleuronectes] Svensk. Vet. Akad. Nya Handl., 1806, **27**, 44–56; 203–233. 1806.1

—— *Mormyrus cyprinoides* et *M. anguilloides.* Beiträge (Weber), 1810, **2**, 142–146. 1810.1

Quenstedt, *Friedrich August von* [1809–1889] Ueber Lepidotus im Lias ε Württembergs. Tübingen, 1847. 24 p. 2 pls. 4°. 1847.1

Description of *Lepidotus elvensis* Blv.

—— Ueber einem Schnaitheimer Lepidotuskiefer. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1853, **9**, 361–365. 1853.1

—— Der Jura. Tübingen, 1856–58. vi, 842 p. 103 pls. 8°. 1856.1

Quid (*pseudon.*) Grayling fishing on the Au Sable. Forest & Stream, 1877, **9**, 88. 1877.1

Quidor, *A.* Sur l'évolution et les affinités des Philichthyidæ. C. R. Acad. Sci. Paris, 1910, **151**, 834–836. 1910.1

Quigstad, *J.* Lappiske navne paa fiske. Nyt Mag. Naturv., Christiania, 1905, **42**, 372–376. 1905.1

Quijada, *Bernardino B.* Catálogo de la collección de los peces chilenos i estranjeros del Museo Nacional. Bol. Mus. Nac. Chile, Santiago, 1912, **4**, no. 1, 69–109. 1912.1

—— Catálogo ilustrado i descriptiva de los peces chilenos i estranjeros conservados en el Museo Nacional. Bol. Mus. Nacion. Chile, 1913, **5**, 7–130. 25 pls. & 2 figs. 1913.1

See also the references under Delfin, F. T., 1898.1, and Porter, C. E., 1909.1, *supra.*

Quincy, *Charles.* Notice sur les plantes et les poissons des cours d'eau et étangs de l'arrondissement de Chalon-sur-Saône. Bull. Soc. Sci. Nat., Chalon-sur-Saône, 1907, **33**, 62–119. 1907.1

—— Sur la confusion des cyprins ou poissons blancs. Bull. Soc. Sci. Nat., Chalon-sur-Saône, 1910, **36**, 29–37. 1910.1

Quinquand, *E.* Expériences relatives à la respiration des poissons. C. R. Acad. Sci. Paris, 1873, **76**, 1141–1143. — Bull. Soc. Chim. Paris, **20**, 159–161. 1873.1

Quinton, *René.* Mouvements amiboïdes des globules blancs dans la dilu-

tion marine; constance du milieu marin comme milieu vital, à travers la série animale. C. R. Mém. Soc. Biol. Paris, 1898, **50**, 469–470. 1898.1

Expériences sur la tanche.

—— Le globule rouge nucléé se comporte autrement que le globule rouge anucléé, au point de vue de l'osmose, vis-à-vis de l'urée en solution. C. R. Acad. Sci. Paris, 1901, **132**, 347–350. 1901.1

—— Communication osmotique chez le poisson sélacien marin, entre le milieu vital et le milieu extérieur. C. R. Mém. Soc. Biol. Paris, 1904, **56**, pt. 2, 513–514. — C. R. Acad. Sci. Paris, **139**, 995–997. — Trav. Labor. Soc. Sci. Arcachon, 1905, **8**, 114–116. 1904.1

Scyllium, Mustelus, Torpedo, Raja.

—— Degré de concentration saline du milieu vital de l'anguille dans l'eau de mer et dans l'eau douce, et après son passage expérimental de la première eau dans la seconde. C. R. Mém. Soc. Biol. Paris, 1904, **56**, pt. 2, 470–472. *Ibid.*, 1905, **57**, 170–172. — C. R. Acad. Sci. Paris, **139**, 938–941. — Trav. Labor. Soc. Sci. Arcachon, 1905, **8**, 108–111. 1904.2

—— Absence de communication osmotique chez le poisson téléostéen marin entre le milieu extérieur. Trav. Labor. Soc. Sci. Arcachon, 1905, **8**, 117–119. 1905.1

—— De quelques phénomènes accompagnant, chez l'anguille, le passage expérimental de l'eau de mer dans l'eau douce. Trav. Labor. Soc. Sci. Arcachon, 1905, **8**, 112–113. 1905.2

Quiroga y Rodriguez, *Francisco* [1853–1894] Apuntes de un viaje por el Sáhara occidental. Anales Soc. Españ. Hist. Nat., 1886, **15**. 1886.1

Peces, por J. Gogorza y Gonzalez.

Quistorp, —— The generation of eels. Fish. Gazette, 1881, **5**, 123. 1881.1

Quix, *François Hubert.* Experimentelle Ergebnisse über das statische Organ bei Ganoiden [Text in Dutch] Nederl. Tijdschr. Geneesk., Amsterdam, 1903, **39**, pt. 2, 211–214. 1903.1

—— Experimenten over de functie van het labyrinth bij haaien. Tijdschr. Nederland. Dierk. Ver., 1903. 2. ser. **8**, 35–61. 1903.2

Quoy, *Jean René Constantin* [1790–1869] & **Gaimard,** *Paul.* Remarques sur quelques poissons de mer; description des poissons (In Freycinet, Louis de. Voyage autour du monde pendant 1817–1820, p. 182–401. 96 pls. Paris, 1824. 4° & fol.) 1824.1

—— Remarques sur quelques poissons de mer, et sur leur distribution géographique. Ann. Sci. Nat. (*Zool.*), 1824, **3**, 411–421. — Notizen (Froriep), **9**, 321–327. — Bull. Sci. Nat. (Férussac), **6**, 100–102. 1824.2

Sélaciens et téléostéens marins.

—— Voyage autour du monde . . . exécuté sur les corvettes de S. M. "L'Uranie" et "La Physicienne" pendant les années 1817–20. Paris, 1824. 1824.3

Poissons, chap. 9, 192–401.

—— Voyage de découvertes de "L'Astrolabe," exécuté par ordre du Roi, pendant les années 1826–29, sous le commandement de M. J. Dumont d'Urville. Paris, 1834. 1834.1

Poissons, vol. iii, p. 647–720. 20 pls.

R

R. Carp and goldfish. Forest & Stream, 1874, **2**, 163. 1874.1

—— Smelts in lake Champlain. Forest & Stream, 1876, **6**, 100. 1876.1

—— To prevent disease in trout. Forest & Stream, 1878, **10**, 442. 1878.1

R., *A. de L.* Fonction électrique de la torpille. Arch. Sci. Phys. Nat. Genève, 1862, n. s. **15**, 276–279. 1862.1

R., *G. P.* Nestbouwende visschen [Gasterosteus] Album Natuur, 1866, 223–224. 1866.1

R., *H. A.* The fisheries and other resources of Alaska. Chicago Field, 1879, **10**, 395–396. 1879.1

R., *J.* The spawning of herring. Forest & Stream, 1879, **12**, 24. 1879.1

R., *J. J.* Salmon in lake Ontario. Forest & Stream, 1876, **6**, 417. 1876.1

R., *R.* Landlocked salmon. Forest & Stream, 1874, **2**, 322. 1874.1

Rabaud, *Etienne.* Caractères généraux des processus teratogènes, processus primitif et processus consécutif. C. R. Acad. Sci. Paris, 1901, **32**, 1150–1153. 1901.1

—— Fragments de tératologie générale. L'arrêt et l'excès de développement. Bull. Sci. France Belgique, 1901, **34**, 481–511. 1901.2

Rabl, *Carl* [1853 —] Ueber die Entwickelung des Venensystems der Selachier (In Festschrift zum siebenzigsten, Geburtstage R. Leuckarts, p. 228–235. figs. Leipzig, 1892) 1892.1

—— Ueber die Metamerie des Wirbeltierkopfes. Verh. Anat. Ges., Anat. Anz., 1892, **8**, 104–135. pl. & figs. 1892.2

—— Ueber die Entwicklung des Urogenitalsystems der Selachier. Morphol. Jahrb., 1896, **24**, 632–767. 8 pls. & 32 figs. 1896.1

—— Gedanken und Studien über den Ursprung des Extremitäten. Zeitschr. Wiss. Zool., 1901, **70**, 474–558. 2 pls. & figs. 1901.1

—— Bausteine zu einer Theorie der Extremitäten der Wirbeltiere. Teil I. Leipzig, 1913. 351 p. 8°. 1913.1

—— Edouard Van Beneden und der gegenwärtige Stand der wichtigsten von ihm behandelten Probleme. Arch. Mikr. Anat., 1915, **88**. 470 p. 7 pls. & 15 figs. 1915.1

Bau, Reifung und Befruchtung des Eies.

Rabl, *Hans.* Pigment und Pigmentzellen in der Haut der Wirbelthiere. Ergebn. Anat. Entw. Gesch. 1896 (1897), **6**, 439–470. 1897.1

Verhältnis der Pigmentzellen zu der Blutgefässen in Embryonen von Fundulus, p. 458.

Rabl-Rückhard, [*Johann Joseph Nepomuk*] *Hermann.* Das gegenseitige Verhältnis der Chorda, Hypophysis und des mittleren Schädelbalkens bei Haifischembryonen, nebst Bemerkungen über die Deutung der einzelnen Theile des Fischgehirns. Morphol. Jahrb., 1880, **6**, 535–570. 2 pls. Abstract in Journ. Roy. Micr. Soc., 2. ser. **1**, 9–11. 1880.1

—— Ueber Untersuchungen der Entwickelung des Knochenfischgehirnes. Sitzber. Ges. Naturf. Freunde Berlin, 1882, 54–55. 1882.1

—— Zur Deutung und Entwickelung des Gehirns der Knochenfische. Arch. Anat. Physiol. (*Anat. Abth.*), 1882, 111–138. 2 pls. 1882.2

—— Das Grosshirn der Knochenfische und seine Anhangsgebilde. Arch. Anat. Physiol. (*Anat. Abth.*), 1883, 279–322. 2 pls. 1883.1

—— Weiteres zur Deutung des Gehirns der Knochenfische. Biol. Centralbl., 1884, **3**, 21–23. 1884.1

—— Das Gehirn der Knochenfische. Biol. Centralbl., 1885, **4**, 499–510; 528–541. 10 figs. 1885.1

—— Zur onto- und phylogenetischen Entwickelung des Torus longitudinalis im Mittelhirn der Knochenfische. Anat. Anz., 1887, **2**, 549–551. 1887.1

—— Der Lobus olfactorius impar der Selachier. Anat. Anz., 1893, **8**, 728–731. 3 figs. 1893.1

—— Noch ein Wort an Herrn Studnička. Anat. Anz., 1894, **10**, 240. 1894.1

Brain-structure of ganoids.

—— Das Vorderhirn der Cranioten; eine Antwort an Herrn F. K. Studnička. Anat. Anz., 1894, **9**, 536–547. figs. 1894.2

Selachians, ganoids and teleosts.

Rabot, —— Rapport sur l'établissement de pisciculture de Maintenon, les procédés qui y sont suivis et leurs résultats pratiques. Mém. Soc. Sci. Nat. Seine-et-Oise 1857–61 (1861), **1**, 50–70. 1861.1

Rabuteau, *Antoine Pierre Athanase,* & **Papillon,** *Fernand.* Observations sur quelques liquides de l'organisme des poissons, des crustacés et des céphalopodes. C. R. Acad. Sci. Paris, 1873, **77**, 135–138. Abstract in Journ. Anat. Physiol., Paris, **11**, 212–215. 1873.1

—— Observations touchant l'action de certaines substances toxiques sur les poissons de mer. C. R. Acad. Sci. Paris, 1873, **77**, 1370–1373. 1873.2

—— Recherches sur quelques points de l'anatomie et de la physiologie des poissons et des crustacés, faites au laboratoire de Concarneau. Moniteur Scient., 1874, **16**, 67–70. 1874.1

Rachow, *Arthur. Barbus camptacanthus* Bleeker, ein neuer Aquarienfisch aus Afrika. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 589–591. fig. 1910.1

—— *Gasteropelecus fasciatus* Garman. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 273–274. fig. 1910.2

—— *Nannostomus eques* Steindachner. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 653–655. 2 figs. 1910.3

—— *Pœcilia amazonica* Garman. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 429–430. fig. 1910.4

—— *Prochilodus binotatus* Schomburgk. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 373–374. fig. 1910.5

—— *Rœboides microlepis* Reinhardt. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 497–498. fig. 1910.6

—— *Tetragonopterus ocellifer* Steindachner. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 485–487. fig. 1910.7

—— *Xiphophorus brevis* Regan. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 553–554. fig. 1910.8

—— Zwei neue südamerikanische Characiniden (*Leporinus melanopleura* Günth. und *L. chalcinus* sp.) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 721–723. 2 figs. 1910.9

—— *Barbus fasciolatus* Günther. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 181–182. fig. 1911.1

—— *Danio malabaricus* Jerdon. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 122–124. fig. 1911.2

—— *Eutropius niloticus* Rüppell. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 805–806. fig. 1911.3

—— *Fundulus sjöstedti* Lönnberg. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 101–103. fig. 1911.4

—— *Gambusia episcopi* Steind. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 527–529. fig. 1911.5

—— *Myletes maculatus* Kner. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 74–76. fig. 1911.6

—— *Neolebias unifasciatus* Steindachner. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 219–221. fig. 1911.7

——Ein neuer Xiphophorus (*X. rachovii* Regan) nebst Bemerkungen über *Xiphophorus strigatus* Regan. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 653–655. 2 figs. 1911.8

—— Eine Nomenklaturfrage (*Chirodon nattereri* Stein.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 597. 1911.9

—— *Paragoniates microlepis* Steind. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 461–463. 2 figs. 1911.10

—— *Pœcilobrycon unifasciatus* Steind. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 365–367. fig. 1911.11

—— *Pyrrhulina semifasciata* Steind. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 119–121. 2 figs. 1911.12

Rachow, *A.*

—— *Rasbora elegans* Volz. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 740–741. fig. 1911.13

—— Der "Soldatenfisch," *Etheostoma cœruleum* Storer. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 705–707. fig. 1911.14

—— *Tilapia pectoralis* Pfeffer. Blätt. Aquar.-Terrar. Künde, 1911, 22. Jahrg., 674–676. fig. 1911.15

—— *Tomeurus gracilis* Eigenmann. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 297–299. fig. 1911.16

—— Ueber *Acanthophacelus reticulatus* Pet. (=*Pœcilia reticulata* Pet.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 445–446. fig. 1911.17

—— Ueber *Petalosoma amazonum* Regan, fälschlich *Tomeurus gracilis* genannt. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 789–790. 2 figs. 1911.18

—— *Chrosomus erythrogaster* Rafinesque. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 101–103. fig. 1912.1

—— *Cichlosoma coryphænoides* Heckel. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 659–660. fig. 1912.2

—— *Cichlosoma maculicauda* Regan. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 739–740. fig. 1912.3

—— *Crenicichla saxatilis* Linn. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 255–256. fig. 1912.4

—— *Cynolebias melanotænia* Regan. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 803–804. fig. 1912.5

—— *Girardinus formosus* Agassiz. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 287–288. fig. 1912.6

—— *Iguanodectes rachovii* Regan, eine neue Fischart aus dem Amazonenstrom. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 463–464. fig. 1912.7

—— *Leuciscus vandoisalus* Cuv. et Val. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 611–612. fig. 1912.8

—— *Mimagoniates barberi* Regan. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 643–645. fig. 1912.9

—— Nachtrag zu Träber's Artikel über *Haplochilus? senegalensis* Steind. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 18–19. 1912.10

—— *Osteoglossum bicirrhosum* (*O. vandelli*) Agassiz. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 645–646. fig. 1912.11

—— *Pseudochalceus multifasciatus* Eigenmann & Norris. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 723–724. pl. 1912.12

—— *Pterophyllum scalare* Cuv. et Val. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 1–3. fig. 1912.13

—— Ueber *Barbus fasciolatus* und *B. semifasciolatus* Günther. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 165–166. 2 figs. 1912.14

—— Ueber *Glaridichthys latidens* Garman. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 326–327. 1912.15

—— Weiteres über *Girardinus formosus* Agassiz. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 612–613. fig. 1912.16

—— Zur Nomenklatur unserer Zierfische. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 824–826. 3 figs. 1912.17

—— Zur Systematik der Panzerwelse (Corydoras) Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 660–663. 2 figs. 1912.18

—— Zur Systematik der "Salmler"-Gattungen Chalceus, Copeina, Pogonocharax und Pyrrhulina, nebst einer Beschreibung einer neuen Pyrrhulina-Art (*Pyrrhulina vittata* Regan) Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 708–711. 2 figs. 1912.19

—— *Agonostomus monticola* Bancroft. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 434–436. fig. 1913.1

—— *Characidium* (*Jobertina*) *rachovii* Regan. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 113–115. fig. 1913.2

—— *Chilodus punctatus* Müller und Troschel. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 225–226. fig. 1913.3

—— *Cichla ocellaris* Bloch u. Schneider, und *Geophagus acuticeps* Heckel. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 481–483. 2 figs. 1913.4

—— *Corydorus macropterus* Regan und *Stegophilus maculatus* Steind. Blätt.

Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 97–99. 2 figs. 1913.5

—— *Crenicichla notophthalmus* Regan. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 385–387. fig. 1913.6

—— *Cyprinodon (Lebias) fasciatus* Valenciennes. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 145–146. fig. 1913.7

—— *Dormitator latifrons* Richardson. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 369–370. fig. 1913.8

—— *Doryichthys lineatus* Kaup. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 177–179. fig. 1913.9

—— *Girardinus pleurospilus* Günther. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 750–751. fig. 1913.10

—— *Hydrocynus maculatus* Cuv. et Val. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 321–322. fig. 1913.11

—— Neueingeführte Characiniden. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 65–67; 81–82. 5 figs. 1913.12

—— *Pœcilobrycon trifasciatus* Steindachner. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 195–196. fig. 1913.13

—— *Serrasalmo rhombeus* Linn. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 745–747. fig. 1913.14

—— Ueber die Zahnkarpfengattungen Fitzroyia (Günther) Tomeurus (Eigenmann) und Petalurichthys (Regan) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 777–781. 5 figs. 1913.15

—— Ueber die Zahnkarpfengattung Xiphophorus (Heckel) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 257–262. 5 figs. 1913.16

—— Zur Nomenklatur unserer Zierfische. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 713–714. fig. 1913.17

—— *Acestrorhynchus microlepis* Schomburgk und *Ceratochanes affinis* Günther. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 25–27. 2 figs. 1914.1

—— *Atherinichthys bonariensis* Cuv. et Val. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 649–650. fig. 1914.2

—— *Cichlosoma urophthalmus* Günther, *Cichlosoma aureum* Günther und *Cichlosoma friedrichsthali* Heckel. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 633–636. figs. 1914.3

—— Neue Fische aus Singapore. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 73–77. figs. 1914.4

—— *Notropis metallicus* Jordan und Meek. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 345–346. fig. 1914.5

—— *Plecostomus rachovii* Regan. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 241–243. fig. 1914.6

—— Ueber *Betta pugnax* Cantor. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 508–510. fig. 1914.7

—— Ueber *Jordanella floridæ* Goode und Bean. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 523–524. 1914.8

—— Ueber die Salmlergattung Characidium Reinhardt. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 2–5. figs. 1914.9

—— Zur Nomenklatur unserer viviparen Zahnkarpfen (Pœciliinæ) nebst Bemerkungen über einige neue Arten. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 185–199. 22 figs. 1914.10

Rachow, *Arthur,* & **Mayer,** *F. See* **Mayer & Rachow.**

Racket, *T.* Description of the *Esox saurus.* Trans. Linn. Soc. London, 1804, **7**, 60. 1804.1

Racovitza, *Emile G.* Observation sur un banc d'anchois (*Engraulis encrasicholus* L.) rencontré près de l'île Cabrera (Baléares) Bull. Soc. Zool. France, 1905, **29**, 211–218. 1905.1

Racovitza, *Emile G.,* & **Boutan,** *L. See* **Boutan & Racovitza.**

Radcliffe, *Lewis* [1880—] Notes on some fishes of the genus Amia, family of Cheilodipteridæ, with descriptions of four new species from the Philippine islands. Proc. U. S. Nat. Mus., 1911, **41**, 245–261. 5 pls. & 3 figs. 1911.1

—— Descriptions of fifteen new fishes of the family Cheilodipteridæ, from the Philippine islands and contiguous waters. Proc. U. S. Nat. Mus., 1912, **41**, 431–446. 5 pls. 1912.1

—— New pediculate fishes from the Philippine islands and contiguous waters. Proc. U. S. Nat. Mus., 1912, **42**, 199–214. 12 pls. 1912.2

Radcliffe, *L.*
—— Notes on pond-culture in the Philippines. Trans. Amer. Fisheries Soc. 1911 (1912), 289–293. 1912.3

—— Descriptions of a new family, two new genera, and twenty-nine new species of anacanthine fishes from the Philippine islands and contiguous waters. Proc. U. S. Nat. Mus., 1913, **43**, 105–140. 10 pls. & 11 figs. 1913.1

Families represented are the Gadidæ, Macrouridæ, Macrouroididæ (nov.) and Ateleopodidæ. The new forms are described jointly with Hugh M. Smith.

—— Descriptions of seven new genera and thirty-one new species of fishes of the families Brotulidæ and Carapidæ from the Philippine islands and the Dutch East Indies. Proc. U. S. Nat. Mus., 1913, **44**, 135–176. 11 pls. 1913.2

—— A hybrid centrarchid. Copeia, 1914, no. 7, 2–4. 1914.1

Chænobryttus gulosus × *Lepomis gibbosus.*

—— The work of the U. S. Fisheries Marine Biological Station at Beaufort, N. C., during 1913. Science, 1914, n. s. **40**, 413–417. 1914.2

Fishes of the region.

—— A note on a drawing of *Caranx bartholomæi* Cuvier et Valenciennes. Copeia, 1915, no. 14, 3–4. 1915.1

—— The sharks and rays of Beaufort, North Carolina. Bull. Bur. Fisheries, 1916, **34**, doc. no. 822, 241–284. 17 pls. 1916.1

—— Description of a new goby, *Garmannia spongicola,* from North Carolina. Proc. U. S. Nat. Mus., 1917, **52**, 423–425. fig. 1917.1

Radcliffe, *Lewis,* & **Evermann,** *Barton Warren. See* **Evermann** & **Radcliffe.**

Radcliffe, *Lewis,* & **Kendall,** *William Converse. See* **Kendall** & **Radcliffe.**

Radcliffe, *Lewis,* & **Smith,** *Hugh McCormick. See* **Smith** & **Radcliffe.**

Radcliffe, *Lewis,* & **Welsh,** *W. W.* Description of a new darter from Maryland. Bull. Bur. Fisheries 1912 (1913), **32**, 29–32. pl. 1913.1

—— A list of the fishes of the Seneca creek, Montgomery county, Maryland region. Proc. Biol. Soc. Washington, 1916, **29**, 39–46. 1916.1

Radde, *Gustav Ferdinand Richard* [1831–1903] Die Fauna und Flora des südwestlichen Caspi-Gebietes. Wissenschaftliche Beiträge zu den Reisen an der persisch-russischen Grenze, etc. Leipzig, 1886. viii, 425 p. 3 pls. 8°. 1886.1

Pisces, von G. Radde.

—— Die Sammlungen des kaukasischen Museums. I. Zoologie. Tiflis, 1899. 520 p. 24 pls. 4°. 1899.1

Radermacher, *J. C. M.* Beschrijving van eenige Japansche visschen en andere zee-schepselen door M. Houttuyn, verzameld door C. Thunberg. Verh. Holl. Maatsch. Wet. Haarlem, 1782, **20**, 311–320. Also separate; Haarlem, 1782. 8°. 1782.1

Radl, *Em.* Zur Morphologie des Sehzentren der Knochenfische. Morphol. Jahrb., 1915, **49**, 509–535. 14 figs. 1915.1

Asymmetrischer Bau. Charakteristische Verteilung der Nervenbahnen. Nervenfibrillenkaskaden innerhalb der Sehzentren.

Radloff, *Frederic Wilhelm.* Beskrifning öfver Aland. Abo, 1795. 260 p. 8°. 1795.1

—— Beskrifning öfver norra delen af Stockholms län. Upsala, 1805. 286 p. 8°. 1805.1

Pisces, p. 247–248.

Radziszewski, *Bronislas* [1838 —] Ueber die Phosphorescenz der organischen und organisierten Körper. Ann. Chemie (Liebig), 1880, **203.** 1880.1

Rae, *John* [1813–1893] Narrative of an expedition to the shores of the Arctic sea in 1846 and 1847. London, 1850. viii, 247 p. illust. 8°. 1850.1

Mammalia and fishes, by J. E. Gray.

Raettig, *A.* Ein Albino unter den Aalen. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1879, 32. Jahrg., 122–123. 1879.1

Räuber, *H.,* & **Kossmann,** *Robby August. See* **Kossmann** & **Räuber.**

Raff, *Janet,* & **Morris,** *Ethel Remfrey. See* **Morris** & **Raff.**

Raffaele, *Federico* [Two preliminary notes on the ova and larvæ of Teleostei] Boll. Soc. Nat. Napoli, 1887, **1**, 53–58; 83–84. 1887.1

—— Le uova galleggianti e le larve dei teleostei nel golfo di Napoli. Mitth. Zool. Stat. Neapel, 1888, **8**, 1–84. 5 pls. 1888.1

—— Note intorno alle specie mediterranee del genere Scopelus. Mitth. Zool. Stat. Neapel, 1889, **9**, 179–186. pl. 1889.1

—— Sullo spostamento postembrionale della cavità addominale nei teleostei. Mitth. Zool. Stat. Neapel, 1889, **9**, 305–329. 2 pls. 1889.2

—— Ricerche sullo sviluppo del sistema vascolare nei selacei. Mitth. Zool. Stat. Neapel, 1891, **10**, 441–479. 3 pls. 1891.1

—— Osservazioni sul foglietto epidermico superficiale degli embrioni dei pesci ossei. Mitth. Zool. Stat. Neapel, 1895, **12**, 169–207. pl. 1895.1

—— Uova di Scombresox, di Exocœtus e di Crystallogobius. Boll. Soc. Nat. Napoli, 1895, **8**, 127–130. 1895.2

—— Osservazioni intorno al sincizio perilecitico delle uova dei teleostei. Boll. Soc. Nat. Napoli, 1899, **12**, 33–69. pl. 1899.1

—— Per la genesi dei nervi da catene cellulari. Anat. Anz., 1900, **18**, 337–344. figs. 1900.1

—— Dubbi sull' esistenza del mesoderma gastrale. Monit. Zool. Ital., Firenze, 1901, **12**, 221. 1901.1

Raffelt, *R.* Ueber einen Fund von 19 Zähnen vom *Ptychodus latissimus* Agassiz in einer Plänerkalkgrube in Settenz bei Teplitz. Verh. Geol. Reichsanst. Wien, 1877, 279–282. — Neues Jahrb. Mineral., 1879, 213. 1877.1

Rafinesque-Schmaltz, *Constantine Samuel* [1783–1840] For biography and list of writings, see Call, R. E. The life and writings of Rafinesque. Louisville, 1895. 4°. Also Call's edition of Rafinesque's Ichthyologia Ohioensis. Cleveland, 1899. 175 p. 8°.

A review of Rafinesque's memoirs on North American fishes, by D. S. Jordan, is published in Bull. U. S. Nat. Mus., 1877, no. 9, 1–53.

—— Caratteri di alcuni nuovi generi e nuove specie di animali [principalmente di pesci] e piante della Sicilia, con varie osservazioni sopra i medisimi. Palermo, 1810. 105 p. 20 pls. 8°. 1810.1

Review in Isis (Oken), 1810, **5**, 534.

—— Indice d'ittiologia siciliana; ossia, catalogo metodico dei nomi latini, italiani, e siciliani dei pesci, che si rinvengono in Sicilia: disposti secondo un metodo naturale e seguito da un appendice che contiene la descrizione di alcuni nuovi pesci siciliani. Messina, 1810. 70 p. 2 pls. 4°. 1810.2

—— Précis des découvertes et travaux somiologiques de Mr. C. S. Rafinesque-Schmaltz entre 1800 et 1814; ou choix raisonné de ses principales découvertes en zoologie et en botanique, pour servir d'introduction à ses ouvrages futurs. Palerme, 1814. 55 p. 12°. 1814.1

Contains descriptions of a few American species of freshwater fishes, among them being *Perca americana* Schranck.

—— Principes fondamentaux de somiologie, ou les loix de la nomenclature et de la classification de l'empire organique ou des animaux et des végétaux, contenant les règles essentielles de l'art, de leur imposer des noms immuables et de les classer méthodiquement. Palerme, 1814. 50 p. 8°. 1814.2

—— Specchio delle scienze, o giornale enciclopedico di Sicilia, deposito letterario delle moderne cognizioni, scoperte ed osservazione sopra le scienze ed arte, etc. 2 vols. in 1. Palermo, 1814. 216 p. 2 pls. 8°. 1814.3

Descrizione di un nuovo genere di pesce, *Leptopus peregrinus*, vol. i, p. 16–17.

Descrizione di un nuovo genere di pesce siciliano, Nemochirus, vol. ii, p. 100–102.

Osservazioni sopra le migrazioni dei pesci, vol, iii, p. 97–100.

—— Analyse de la nature, ou tableau de l'univers et des corps organisés. Palerme, 1815. 224 p. 8°. 1815.1

—— Dissertation on water-snakes, sea-snakes and sea-serpents. Amer. Monthly Mag. Crit. Rev., New York, 1817, **1**, no. 6, 431–435. Notice in Philos. Mag. Journ., 1819, **53**, 411–412. 1817.1

This paper describes *Anguilla gigas*, an imaginary form.

—— First decade of new North American fishes. Amer. Monthly Mag. Crit. Rev., New York, 1817, **2**, no. 2, 120–121. 1817.2

Descriptions are given of two species of Bodianus, five of Cyprinus and one each of Anguilla and Salmo.

—— Description of three new genera of fluviatile fish, Pomoxis, Sarchirus and Exoglossum. Journ. Acad. Nat. Sci. Philad., 1818, n. s. **1**, 417–422. pl. 1818.1

—— Description of two new genera of North American fishes, Opsanus and Notropis. Amer. Monthly Mag. Crit. Rev., New York, 1818, **2**, no. 3, 203–204. 1818.2

Rafinesque-Schmaltz, *C. S.*

—— Discoveries in natural history made during a journey through the western region of the United States. Amer. Monthly Mag. Crit. Rev., New York, 1818, **3**, no. 5, 354–356. *Ibid.*, **4**, no. 1, 39–42. 1818.3

In the first of these papers, provisional names are instituted for thirteen genera and twenty-six species. Two new species of Silurus are also described. In the second, the following new genera and species are described: *Pomoxis annularis*, *Noturus flavus* and *Sarchirus vittatus*.

—— General account of the discoveries made in the zoology of the western states in 1818. Amer. Monthly Mag. Crit. Rev., New York, 1818, **4**, no. 2, 107. 1818.4

—— Introduction to the ichthyology of the United States. Amer. Monthly Mag. Crit. Rev., New York, 1818, **2**, no. 3, 202–203. 1818.5

—— Museum of natural history. Further discoveries in natural history made during a journey through the western region of the United States. Amer. Monthly Mag. Crit. Rev., New York, 1818, **3**, no. 6, 445–447. 1818.6

—— Second decade of new North American fishes. Amer. Monthly Mag. Crit. Rev., New York, 1818, **2**, no. 3, 204–206. 1818.7

Two species of Perca, and one each of Sparus and Petromyzon are described.

—— Description of a new genus of North American freshwater fish, Exoglossum. Amer. Journ. Sci., 1819, **1**, 155–156. — Isis (Oken), 1819, **10**, 1038. 1819.1

—— Natural history of the fishes of the Ohio river and its tributary streams. Western Rev. & Misc. Mag., 1819, **1**, 305–313. 1819.2

—— Prodrome de 70 nouveaux genres d'animaux découverts dans l'intérieur des Etats-Unis d'Amérique durant l'année 1818. Journ. Physique, Paris, 1819, **88**, 417–429. 1819.3

Abstract in Isis, Litterarischer Anzeiger, Leipzig, 1820, 236–244. This paper has notice of fifteen genera, and adds seventeen new species. *Noturus luteus* and *Pilodictis limosus*, gen. et sp. nov. are described.

—— Description of the silures or catfishes of the river Ohio. Quart. Journ. Sci. Lit. Arts, Roy. Inst. London, 1820, **9**, 48–52. 1820.1

A number of new species and varieties of Silurus are described.

—— Ichthyologia Ohiensis, or natural history of the fishes inhabiting the river Ohio and its tributary streams, preceded by a physical description of the Ohio and its branches. Lexington, Kentucky, 1820. 90 p. 8°. 1820.2

Originally printed in the Western Review and Miscellaneous Magazine, Lexington, Kentucky, 1819–20. A verbatim et literatim reprint of the original, with a sketch of the life, the ichthyologic work, and the ichthyologic bibliography of Rafinesque was published by Richard Ellsworth Call at Cleveland, 1899. It contains redescriptions of all the species previously indicated by the author, thirteen in number. The name *Silurus argentinus* is changed to *Pimelodus argyprus*, and the genus Pimelodus is divided into a number of subgenera and sections.

—— Remarques sur quelques erreurs ichthyologiques. Ann. Gén. Sci. Phys. Nat., Bruxelles, 1820, **6**, 369. 1820.3

—— Enumeration and account of some remarkable natural objects in the cabinet of Professor Rafinesque, in Philadelphia, being animals, shells, plants and fossils, collected by him in North America, between 1816–1831. By C. S. Rafinesque, Professor of historical and natural sciences. Philadelphia, 1831. 9 pls. 1831.1

A manuscript copy of this work exists in the library of Harvard University.

—— (*editor*) Atlantic Journal and friend of knowledge; a cyclopedic journal and review of universal science and knowledge, etc. [edited by] C. S. Rafinesque. Philadelphia, 1832. 1832.1

Fishes of the United States, no. 4, p. 141–142.

Raggi, *G. A.* Pesca dei tonni a Favignana. Rivist. Maritima, Roma, 1894, fasc. di novembre. 12 p. 3 pls. & map. 1894.1

Raggi, *Luigi.* L'aringa e la sua pesca. Schema di una conferenza tenuta il 17 novembre 1903. Rivist. Ital. Sci. Nat., 1904, 24. anno, 132–135; 145–147. *Ibid.*, 1905, 25. anno, 18–23. 1904.1

Ragsdale, *G. H.* Speckled trout in Tennessee. Forest & Stream, 1876, **7**, 85. 1876.1

Räihä, —— Onkivesi såsom fiskevatten. Fiskeritidskr. Finl., 1893, **2**, 166–175. 1893.1

Railliet, *A.* La maladie des barbeaux de la Marne. Bull. Soc. Centr. Aquicult. France, 1890, **2**, 117. 1890.1

Raincourt, —— *de.* Sur des ossements de poissons trouvées à Ormoy, près Etampes. Bull. Soc. Géol. France, 1870, 2. sér. **27**, 630–631. 1870.1

Undetermined fragments.

Raj, *B. S.* Note on the breeding of *Chiloscyllium griseum* Müll. & Henle. Rec. Ind. Mus. Calcutta, 1914, **10**, 318–319. 1914.1

—— Note on *Trygon kuhlii.* Rec. Ind. Mus. Calcutta, 1914, **10**, 317–318. 1914.2

Ramage, *John.* Account of a stickleback which was found with a leech alive in its intestines, June 1818. Edinburgh Journ. Sci., 1825, **3**, 74–75. 1825.1

—— On the food of the stickleback [*Gasterosteus aculeatus*] Ann. Phil., 1826, **28**, 173. — Isis (Oken), **5**, 501. 1826.1

Ramble, *R.* Book of fishes. Philadelphia [n. d.] 8°.

Not seen; title from Bosgoed's Bibliotheca Ichthyologica. Haarlem, 1874.

Ramel, *P.* Heureuse arrivée en Australie des œufs de saumon conservés dans la glace. Bull. Soc. Acclim. Paris, 1864, 2. sér. **1**, 440–442. 1864.1

—— Note sur le Murray codfish (*Oligorus macquariensis*) Bull. Soc. Acclim. Paris, 1868, 2. sér. **5**, 13–16. 1868.1

Ramelet, *J.* L'établissement de pisciculture de Neuvon (Côte-d'Or) Bull. Soc. Acclim. Paris, 1896, **43**, 16–21. pl. 1896.1

Ramisch, *F. H.* Naturgeschichte des Thierreiches für Anfänger, fortgesetzt von Karl Borziwog Presl und H. M. Schmidt-Göbel. 3 vols. Prag, 1835–44. illust. 1835.1

Fische, Bd. ii.

Ramis y Ramis, *D. Juan.* Specimen animalium, vegetabilium et mineralium in insula Minorcâ frequentiorum, ad normam Linneani systematis exaratum. Magone, Balearium, excudebat Petrus Antonius Serra, 1814. 1814.1

Ramon de la Sagra. *See* **Sagra,** *Ramon de la.*

Ramon y Cajal, *Pedro.* Los corpusculos nerviosos de axon corto ó células sensitivas de Golgi en los vertebrados inferiores. Rev. Trim. Microgr., 1897, **2**, 29–32. fig. 1897.1

—— El lobulo optico de los peces (teleosteos) Rev. Trim. Microgr., 1899, **4**, 87–107. 4 figs. 1899.1

Ramon y Cajal, *Santiago.* Nota sobre la estructura de los tubos nerviosos del lobulo cerebral eléctrico del torpedo. Rev. Trim. Histol., 1888, anno 1. 1888.1

—— La retina de los teleósteos y algunas observaciónes sobre la de los vertebrados superiores. Anal. Soc. Española Hist. Nat., 1892, 2. ser. **1**, 281–305. figs. 1892.1

—— Die Retina der Wirbeltiere. Uebersetzt von R. Greef. Wiesbaden, 1894. 1894.1

—— Notas preventivas sobre la estructura del encéphalo de los teleósteos. Anal. Soc. Española Hist. Nat., 1894, 2. ser. **13**, 93–99. 1894.2

—— Sobre la fagocitosis de las plaquetas de lós vertebrados inferiores. Anal. Soc. Española Hist. Nat., 1896, 2. ser. **15**, 5–12. 2 figs. Abstracts in Journ. Roy. Micr. Soc., 1897, 23. — Rev. Chil. Hist. Nat., 1. año, 17–18. 1896.1

—— Textura del sistema nerviosa del hombre y de los vertebrados. 2 vols. Madrid, 1899–1904. Vol. i, 1899. xi, 566 p. 206 figs. Vol. ii, 1904. 1209 p. 680 figs. 1899.1

Ramorino, *Giovanni.* Sopra tre piccoli Chironectes, trovati nel golfo di Genova. Arch. Zool. (Canestrini), 1861, 249–258. 1861.1

Ramsay, *Edward Pierson* [Remarks on *Ceratodus forsteri*] Proc. Zool. Soc. London, 1871, 7–8. 1871.1

—— Marine animals in fresh water. Forest & Stream, 1874, **2**, 389. 1874.1

—— Notes on the habits of some living Ceratodi in the Australian Museum, Sydney. Proc. Zool. Soc. London, 1876, 698–699. 1876.1

—— Description of a parasitic Syngnathus [*S. intestinalis*, n. sp.] Proc. Linn. Soc. New South Wales, 1881, **5**, 494–495. 1881.1

—— Description of two new species of Australian fishes [*Solea macleayana*, *Latella grandis*] Proc. Linn. Soc. New South Wales, 1881, **5**, 462–463. 1881.2

—— Notes on *Galeocerdo rayneri,* with a list of other sharks taken in Port Jackson. Proc. Linn. Soc. New South Wales, 1881, **5**, 95–97. 1881.3

—— Notes on *Histiophorus gladius.* Proc. Linn. Soc. New South Wales, 1881, **5**, 295–297. 1881.4

Ramsay, *E. P.*

—— On a new species of Regalecus [*R. jacksonensis*] from Port Jackson. Proc. Linn. Soc. New South Wales, 1881, **5**, 631–633. 1881.5

—— On a rare species of perch [*Anthias longimanus* Günther] from Port Jackson. Proc. Linn. Soc. New South Wales, 1881, **5**, 294–295. 1881.6

—— Description of a new labroid fish of the genus Novacula [*N. jacksonensis*] from Port Jackson. Proc. Linn. Soc. New South Wales, 1882, **6**, 198–199. 1882.1

—— Description of a new species of Hemerocœtes [*H. haswelli*] from Port Jackson. Proc. Linn. Soc. New South Wales, 1882, **6**, 575. 1882.2

—— Catalogue of the exhibits in the New South Wales court [International Fisheries Exhibition] London, 1883. 56 p. 8°. 1883.1

—— Notes on *Apogon güntheri* of Castelnau, and descriptions of two new fishes from New South Wales [*Syngnathus cinctus, Solea fluviatilis*] Proc. Linn. Soc. New South Wales, 1883, **7**, 110–112. 1883.2

—— Notes on the food fishes and edible mollusca of New South Wales, etc. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **5**, pt. 8. 1883.3

—— Description of some new Australian fishes. Proc. Linn. Soc. New South Wales, 1884, **8**, 177–179. 1884.1

The forms described are: *Saurida ferox, Batrachus punctatulus, Genyoroge macleayana, Percis coxii.*

Ramsay, *Edward Pierson,* & **Ogilby,** *J. D.* Descriptions of new or rare Australian fishes. Proc. Linn. Soc. New South Wales, 1885, **10**, 575–579. 1885.1

—— A contribution to the knowledge of the fish-fauna of New Guinea. Proc. Linn. Soc. New South Wales, 1886, 2. ser. **1**, 8–20. 1886.1

—— Descriptions of new Australian fishes. Proc. Linn. Soc. New South Wales, 1888, 2. ser. **2**, 241–243; 561–564. 1888.1

—— Descriptions of two new fishes [*Tripterygium annulatum, Congromuræna longicauda*] from Port Jackson. Proc. Linn. Soc. New South Wales, 1888, 2. ser. **2**, 1021–1023. 1888.2

—— Note in correction of certain errors in previous papers. Proc. Linn. Soc. New South Wales, 1888, 2. ser. **2**, 1024. 1888.3

—— Notes on the genera of Australian fishes. Proc. Linn. Soc. New South Wales, 1888, 2. ser. **2**, 181–184. 1888.4

—— On a new genus and species of labroid fish from Port Jackson. Proc. Linn. Soc. New South Wales, 1888, 2. ser. **2**, 631–634. 1888.5

—— On an undescribed shark [*Carcharias macrurus*] from Port Jackson. Proc. Linn. Soc. New South Wales, 1888, 2. ser. **2**, 163–164. 1888.6

—— Descriptions of two new Australian fishes. Proc. Linn. Soc. New South Wales, 1889, 2. ser. **3**, 1310–1312. 1889.1

Ramsay, *Wilhelm.* Finlands geologiska utveckling från istiderna intill våra dagar. Skrifter Sv. Folksk. Vänn., 1896, **36**, 1–93. 50 figs. Also separate: Helsingfors, 1900. 94 p. 8°. 1896.1

Ramsbottom, *Robert Clitheroe.* The salmon and its artificial propagation. London & Manchester, 1854. 69 p. 3 pls. 8°. 1854.1

Ramsey, *Earl E.* The cold-blooded vertebrates of Winona lake and vicinity. Proc. Indiana Acad. Sci., 1900 218–224. fig. 1900.1

—— The optic lobes and optic tracts of *Amblyopsis spelæus* Dekay. Journ. Comp. Neurol., 1901, **11**, 40–47. 2 pls. 1901.1

—— The brain of Amblyopsis (In Eigenmann, Carl H. Cave vertebrates of America, p. 106–108. fig. 34. Carnegie Inst. Washington, Pub. no. 104. 1909) 1909.1

Ramstedt, *C. O.* Om den galvaniska induktionsströmmens inverkan på fiskarnes färg. Oefvers. Finsk Vetensk. Soc. Förh., 1872, **14**, 6–7. 1872.1

Rand, *Herbert Wilbur* [1872—] The skate as a subject for classes in comparative anatomy; injection methods. Amer. Naturalist, 1905, **39**, 365–379. fig. 1905.1

—— The functions of the spiracle of the skate. Amer. Naturalist, 1907, **41**, 287–302. 1907.1

Rand, *Herbert Wilbur,* & **Ulrich,** *John L.* Posterior connections of the lateral vein of the skate. Amer. Naturalist, 1905, **39**, 349–364. 5 figs. 1905.1

Randelin, *Oskar.* Om fiskafveln i Kuusamo. Sporten, 1885, 5. ser. **1**, 38. 1885.1

Randolph, *P. B.* The mating habits of viviparous fishes [of California] Amer. Naturalist, 1898, **32**, 305. 1898.1

Rangifer (*pseudon.*) St. John and the upper Saguenay. Forest & Stream, 1880, **13**, 964–965. 1880.1

Ransom, *W. B.,* & **Thompson,** *D'Arcy W.* On the spinal and visceral nerves of Cyclostomata. Zool. Anz., 1886, **9**, 421–426. 1886.1

Ransom, *W. H.* On the impregnation of the ovum in the stickleback. Proc. Roy. Soc. London, 1854, **7**, 168–172. 1854.1

—— Observations on the structure of the ova of fishes, with especial reference to the micropyle and the phenomena of their fecundation. Rept. Brit. Assoc. Adv. Sci., 25. meet., 1855, pt. 2, 131. 1855.1

—— On the nest of the ten-spined stickleback [*Gasterosteus pungitius*] Ann. Mag. Nat. Hist., 1865, 3. ser. **16**, 449–451. 1865.1

—— On purifying the water for the purpose of fish-hatching. Ann. Mag. Nat. Hist., 1866, 3. ser. **17**, 77–78. 1866.1

—— On the spawn of the perch. Ann. Mag. Nat. Hist., 1866, 3. ser. **17**, 79. 1866.2

—— Observations on the ovum of osseous fishes. Phil. Trans. Roy. Soc. London, 1867, **157**, pt. 2, 431–501. 4 pls. Abstracts in Proc. Roy. Soc. London, 1867, **15**, 226–229. figs. — Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 249–251. 1867.1

—— On the conditions of the protoplasmic movements in the eggs of osseous fishes. Journ. Anat., 1867, **1**, 237–245. 1867.2

—— On the structure and growth of the ovarian ovum in *Gasterosteus leiurus.* Quart. Journ. Micr. Sci., 1867, n. s. **7**, 1–4. — Rept. Brit. Assoc. Adv. Sci., 36. meet. 1866, 77. 1867.3

Rantaniemi, *Pekka Aappo.* Vähäsen elämästä akvaarioissa. Luonnon Ystävä, 1897, **1**, 97–101. 1897.1

Rantoul, *Robert S.* The codfish in Massachusetts history. Proc. Essex Inst. 1866–67 (1868), **5**, 67. 1868.1

Printed in the Historical Collections, vol. viii.

Ranvier, *Louis Antoine* [1835—] Des étranglements annulaires et des segments interannulaires chez les raies et les torpilles. C. R. Acad. Sci. Paris, 1872, **75**, 1129–1132. 1872.1

Distribution of nerves in the electric piles of Torpedo.

—— Propriétés et structures différentes des muscles rouges et des muscles blancs, chez les lapins et chez les raies. C. R. Acad. Sci. Paris, 1873, **77**, 1030–1034. 1873.1

—— Note sur les muscles de la nageoire dorsale de l'hippocampe. Arch. Physiol., 1874, 2. sér. **1**, 16–18. figs. — Trav. Labor. Histol. Ecole Prat. Hautes-Etudes, 1874, 12–14. 1874.1

—— Sur les terminaisons nerveuses dans les lames électriques de la torpille. C. R. Acad. Sci. Paris, 1875, **81**, 1276–1278. — Bull Hebd. Assoc. Sci. France, 1875, **17**, 251–253. 1875.1

—— Sur l'organe électrique de la torpille. Journ. Microgr., 1877, **1**, 12–22; 50–57; 93–100; 139–142; 182–185; 227–232; 319–322. fig. 1877.1

Ranzani, *Camillo* [1775–1841] Descrizione di un pesce, che appartiene ad un nuovo genere della famiglia dei Tenioidi di Cuvier [*Epidesmus maculatus*] Opusc. Scient. Bologna, 1818, **2**, 133–137. 1818.1

—— Elementi di zoologia. 3 vols. Bologna, 1819–26. illust. 8°. 1819.1

—— [Di parecchie nuove specie di pesci da lui trovati nella collezione zoologica dell' Università] Nuov. Ann. Sci. Nat. Bologna, 1838, **1**, 431–434. 1838.1

—— Dispositio familiæ Molarum in genera et in species. Novi Comment. Acad. Sci. Inst. Bonon., 1839, **3**, 63–82. 1839.1

—— De novis speciebus piscium; dissertationes quatuor. Novi Comment. Acad. Sci. Inst. Bonon., 1840, **4**, 65–84. *Ibid.*, **5**, 3–22; 307–338; 339–366. — Nuov. Ann. Sci. Nat. Bologna, 1838, **1**, 431–432. *Ibid.*, 1841, **5**, 60–66. *Ibid.*, 1841, **6**, 367–370; 443–444. 1840.1

Ranzani, *C.*

—— Memoria intorno diverse nuove specie di pesci. Nuov. Ann. Sci. Nat. Bologna, 1840, **3**, 291–294. 1840.2

The following-named new species are described: *Monacanthus pullatus, M. varius, Hippoglossus brasiliensis, H. intermedius, Sycium micrurum.*

Rapp, *Wilhelm Ludwig von* [1794–1868] Ueber einen neuen Aal vom Cap, *Murœna macrocephala.* Jahresh. Ver. Vaterl. Naturk. Württemberg, 1849, **4**, 142. 1849.1

—— Ueber einige Fische des Bodensees. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1853, **9**, 33. 1853.1

—— Die Fische des Bodensees untersucht und beschrieben. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1854, **10**, 137–175. 6 pls. *Ibid.*, **11**, 33–38. Also separate; Stuttgart, 1854. 38 p. 1854.1

Rasch, *Halvor Heyerdahl* [c. 1805–1883] Naturhistoriske notitser fra en reise, foretagen in sommeren 1833. Mag. Naturv. Christiania, 1836, **12**. 1836.1

—— Om den kunstige fiskeformerelse m. V. tillægshefte til tidsskriftet "Folkevennen." Christiania, 1852. 8°. 1852.1

—— Om vigtigheden af en energisk drift og omhyggelig skjotsel af. udklækningsapparater for kunstig befrugtede laxerogn. Morgenbladet, Christiania, 1867, no. 35. 1867.1

—— Resultatet af nogle af ham anstillede bastarderingsforsøg mellem forskjellige arter af ørretartede fiske. Forh. Vidensk. Selsk. Christiania 1866 (1867), 326–327. 1867.2

—— Beskrivelse af to i 1869 indrettede saltvandsparke i det sydlige Norge. Norsk Landmandsbog, Christiania, 1869, 63–86. 1869.1

—— Om *Zeus faber.* Forh. Vidensk. Selsk. Christiania 1870 (1871), 500–502. 1871.1

—— Driftsplan for saltvandsparken hundebund. Christiania, 1872. 8°. 1872.1

—— Er sagflisen en saa vaesentlig hindring for laxens opgang i vore elve, som man i almindelighed antager? Medd. Norsk Jaeger & Fisker-Forening, Christiania, 1873, 2. Jahrg., 56–58. 1873.1

—— Is sawdust as serious an obstacle to the ascent of salmon in our rivers as is generally maintained? Rept. U. S. Fish Comm. 1878 (1880), **6**, 517–518. 1880.1

Rasch, *Halvor Heyerdahl,* **Landmark,** *A.*, & **Sars,** *G. O.* Opinions concerning the desirability of a hatchery for saltwater fish in Norway. Bull. U. S. Fish Comm. 1885, **5**, 146–150. 1885.1

Raschke, *W.* Tafeln einheimischer Süsswasser- und Seefische. Annaberg, 1907. 2 pls. 1907.1

—— Naturgeschichtliche Tafeln. No. 6. Tafel der Seefische. Annaberg, 1909. 1909.1

Raspail, *Xavier.* Causes diverses du dépeuplement de certaines rivières. Rev. Scient., 1900, 4. sér. **14**, 651–654. 1900.1

—— Enquête sur les mesures à prendre pour faciliter le passage aux poissons migrateurs. Rev. Scient., 1903, 4. sér. **19**, 366–369. 1903.1

Rath, *J. J. Gerhard vom.* Beitrag zur Kenntniss der fossilen Fische des Plattenberges im Canton Glarus. Zeitschr. Deutsch. Geol. Ges., 1859, **11**, 108–132. 1859.1

—— Glarner Fischversteinerungen. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1859, **16**, 41–73. 1859.2

Rathbun, *Richard* [1852 —] The littoral marine fauna of Provincetown, Cape Cod, Massachusetts. Proc. U. S. Nat. Mus., 1880, **3**, 116–133. 1880.1

—— Descriptions of parasitic Copepoda [on fish] belonging to the genera Pandarus and Chondracanthus. Proc. U. S. Nat. Mus., 1886, **9**, 310–324. 7 pls. 1886.1

—— (*editor*) The fishing grounds of North America, etc. (In Goode, G. B. The fisheries and fishery industries of the United States, etc. Washington, 1884–1887. sect. iii. xviii, 238 p. illust.) 1887.1

—— Report of the division of inquiry respecting food-fishes and the fishing-grounds. Rept. U. S. Fish Comm. 1889–91 (1893), **17**, 97–171. 1893.1

—— Report of the division of inquiry respecting food-fishes and the fishing-grounds. Rept. U. S. Fish Comm. 1892 (1894), **18**, lxxxviii–cxxii. 1894.1

—— Report upon the inquiry respecting food-fishes and the fishing-grounds. Rept. U. S. Fish Comm. 1896 (1898), **22**, 93–118. 1898.1

—— Annotated list of the described species of parasitic Copepoda (Siphonostomata) from American waters contained in the National Museum. Proc. U. S. Nat. Mus., 1902, **7**, 483–492. 1902.1

Few species on migratory fishes, Atlantic and Pacific salmon, eel, sturgeon; also one species, *Lernæopoda coregoni* (Smith) from the whitefish in lake Superior.

Rathbun, *Richard,* & **Collins,** *J. W. See* **Collins & Rathbun.**

Rathke, *Jens* [1769–1855] Icones rerum naturalium, ou figures enluminées d'histoire naturelle du Nord. Cinquième cahier. *See* **Ascanius,** *P.* 1805. 4°.

Rathke, *Martin Heinrich* [1793–1860] Beiträge zur Geschichte der Thierwelt. Neue Schrift. Naturf. Ges. Danzig, 1820–25, **1**, Hefte 1–4. 1820.1

i. Ueber den Darmkanal und die Zeugorgane der Fische.
ii. Ueber die Geschlechtstheile der Fische.

—— Ueber die weiblichen Geschlechtstheile der Lachse und des Sandaales [*Ammodytes tobianus*] Deutsch. Arch. Physiol. (Meckel), 1820, **6**, 589–600. 1820.2

—— Bemerkungen über den Bau des *Cyclopterus lumpus* (Lumpfisches, Seehasen) Deutsch. Arch. Physiol. (Meckel), 1822, **7**, 498–524. 1822.1

—— Anatomisch-physiologische Bemerkungen. Deutsch. Arch. Physiol. (Meckel), 1823, **8**, 45–55. 1823.1

i. Ueber den Bau der Pricken für die Systematiker.
ii. Angeborene sonderbare Missbildung eines menschlichen Auges.

—— Bemerkungen über den inneren Bau der Pricke oder des *Petromyzon fluviatilis* Linn. Danzig, 1825. viii, 100 p. 3 pls. 4°. 1825.1

—— Sur le canal alimentaire et les organes reproducteurs des poissons. Bull. Sci. Nat. (Férussac), 1825, **6**, 278–284. 1825.2

—— Mémoire sur le foie et sur le système de la veine-porte des poissons. Arch. Anat. Physiol., 1826, **1**, 126. — Bull. Sci. Nat. (Férussac), **11**, 122. — Ann. Sci. Nat. (*Zool.*), **9**, 155. 1826.1

—— Sur le ventricule du cœur des poissons. Arch. Anat. Physiol., 1826, **1**, 152. — Bull. Sci. Nat. (Férussac), **11**, 125. 1826.2

—— Ueber die Herzkammer der Fische. Deutsch. Arch. Physiol. (Meckel), 1826, 152–157. 1826.3

—— Ueber die Leber und das Pfortadersystem der Fische. Deutsch. Arch. Physiol. (Meckel), 1826, 126–152. — Ann. Sci. Nat. (*Zool.*), **9**, 155–184. 1826.4

—— Beiträge zur Geschichte der Thierwelt. Neue Schrift. Naturf. Ges. Danzig, 1827, **2**, Heft. 2. 1827.1

i. Ueber den Eierstock der Haifische.
ii. Beiträge zur Entwickelungsgeschichte der Haifischen und Rochen.
iii. Bemerkungen über den innern Bau des Querders [*Ammocœtes branchialis*] und des kleinen Neunauges [*Petromyzon planeri*]
iv. Bemerkungen über die Schwimmblase einiger Fische.

—— Ueber den Mangel des Gekröses bei *Syngnathus ophidion.* Deutsch. Arch. Physiol. (Meckel), 1830, 439–440. 1830.1

—— Ueber das Ei einiger Lachsarten. Arch. Anat. Physiol. (Müller), 1832, 392–397. 1832.1

—— Bildungsgeschichte des Auges beim Schleimfisch [*Blennius viviparus*] Zeitschr. Opthalm. (Ammon), 1833, **3**, 362–366. 1833.1

—— Beiträge zur Anatomie der Fische. Arch. Anat. Physiol. (Müller), 1836, 170–186. *Ibid.*, 1837, 335–356; 468–478. *Ibid.*, 1838, 413–445. 1836.1

—— Beitrag zur Fauna der Krimm. Mém. Sav. Etrang. St. Pétersb., 1837, **3**, 291–454; 773–774. 1837.1

—— Ueber die Leber, die Milz und die Harnwerkzeuge der Fische. Arch. Anat. Physiol. (Müller), 1837, 468–478. 1837.2

—— Zur Morphologie. Reisebemerkungen aus Taurien. Riga & Leipzig, 1837. 192 p. 5 pls. 4°. 1837.3

Ueber die Entwickelung der Syngnathen.

—— Ueber die weiblichen Geschlechts-Werkzeuge des Aales [*Anguilla fluviatilis*] Arch. Naturgesch., 1838, 4. Jahrg., 299–301. 1838.1

—— Bemerkungen über *Syngnathus æquoreus* und *Actinia plumosa.* Arch. Anat. Physiol. (Müller), 1840, 145–148. 1840.1

—— Bemerkungen über den Bau des *Amphioxus lanceolatus,* eines Fisches aus der Ordnung der Cyclostomen. Königsberg, 1841. 38 p. pl. 4°. 1841.1

Rathke, *M. H.*
—— Verzeichniss der in Ost- und Westpreussen vorkommenden Wirbelthiere. Neue Preuss. Provinzial-Blätt. Königsb., 1846, **2**, 1, 17. 1846.1

—— Ueber die Beschaffenheit der Lederhaut bei Amphibien und Fischen. Arch. Anat. Physiol. (Müller), 1847, 338–341. 1847.1

—— Bemerkungen über einen hochträchtigen Aal. Arch. Anat. Physiol. (Müller), 1850, 203–206. 1850.1

—— Entwickelungsgeschichte der Wirbelthiere; mit einen Vorwort von A. Kölliker. Leipzig, 1861. viii, 201 p. 8°. 1861.1

Ratter, —— Eine angebliche Epidemie unter den Aalen. Allgem. Fischerei Zeitg., 1897, **22**, 25–27. 1897.1

Rattray, *Alexander.* Vancouver island and British Columbia, where they are, what they are, and what they may become, etc. London, 1862. viii, 182 p. 12°. 1862.1

The fisheries of Vancouver island and British Columbia, p. 77–83.¶

Rátz, *Stefan von.* Die Parasiten der Fische des Balaton. Resultate Wiss. Erforsch. Balatonsees, 1893, **2**. 1893.1

Rau, *Charles* [1826–1887] Prehistoric fishing in Europe and North America. Smithson. Contrib. Knowledge, 1885, **25**, 1–342. 405 figs. 1885.1

Rauber, *August* [1845 —] Ueber das Geschlecht des Aals. Sitzber. Naturf. Ges. Leipzig, 1875, 2. Jahrg., 111–112. 1875.1

—— Ueber die Caudal-Intumescenz des Fischmarkes. Sitzber. Naturf. Ges. Leipzig, 1876, 3. Jahrg., 7–8. 1876.1

—— Die Theorien der excessiven Monstra. Arch. Path. Anat. (Virchow), 1877, **71**, 133–206. *Ibid.*, 1878, **73**, 551–594. 1877.1

—— Formbildung und Formstörung in der Entwicklung von Wirbelthieren. Morph. Jahrb., 1879, **5**, 661–705. 3 pls. *Ibid.*, **6**, 129–184. 4 pls. 1879.1

Knochenfische, bez. Lachs.

—— Gastrodidymus des Lachses. Arch. Path. Anat. (Virchow), 1879, **75** (7. ser. **5**), 553–554. 1879.2

—— Ueber die Doppelmonstra der Fische. Sitzber. Naturf. Ges. Leipzig, 1880, **6**. 1–2. 1880.1

—— Furchung und Achsenbildung bei Wirbelthieren. Zool. Anz., 1883, **6**, 461–466. 1883.1

Petromyzon.

—— Neue Grundlegungen zur Kenntnis der Zelle. Morph. Jahrb., 1883, **8**, 233–338. 4 pls. 1883.2

Gobius, *Acerina cernua* and *Petromyzon planeri.*

—— Schwerkraftversuche an Forelleneiern. Sitzber. Naturf. Ges. Leipzig, 1885, **11**, 8–19. 1885.1

Rauch, *G.* Bericht über die Ergebnisse der Fischerei auf dem Bodensee von Lindau bis Konstanz im Jahre 1895. Allgem. Fischerei Zeitg., 1896, **21**, 95–112. 1896.1

Rauschenbach, *Walter.* Meine Erfahrungen bei der Pflege und Zucht von *Fundulus bivittatus* Lönnb. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 205–206. fig. 1912.1

—— Pflege und Zucht von *Fundulus arnoldi.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 234–235. 1912.2

Rauschenplat, *E.* Ueber die Nahrung von Thieren aus der Kieler Bucht. Wiss. Meeresuntersuch., Kiel (*Abth. Kiel*), 1901, 2. ser. **5**, 85–151. 1901.1

Rautenfeld, *Eberhard von.* Morphologische Untersuchungen über das Skelet der hinteren Gliedmassen von Ganoiden und Teleostiern. Inaug. Dissert. Dorpat, 1882. 48 p. 2 pls &. 19 figs. 8°. 1882.1

Rauther, *Max.* Einige Beobachtungen über die Hautdrüsen von Siluriden. Ber. Oberhess. Ges. Natk. Heilk. Giessen (*Naturw. Abth.*), 1907, n. s. **1**, 88–98. 1907.1

—— Die Fische. Leipzig, 1907. 154 p. 37 figs. 12°. 1907.2

—— Das Tierreich. IV. Fische. Leipzig, 1907. 154 p. 8°. (Sammlung Göschen, no. 356) 1907.3

—— Das Kopulationsorgan von Clinus (In Zoologische und anthropologische Ergebnisse einer Forsuchungsreise im westlichen und zentralen Süd-Afrika ausgeführt in den Jahren 1903–1905 von Leonhard Schultze. Denkschr. Medic.-Naturw. Ges. Jena, 1909, **3**, 467–476. 6 figs.) 1909.1

—— Die akzessorischen Atmungsorgane der Knochenfische. Ergebn.

Fortschr. Zool., Jena, 1910, **2**, 517–585. 34 figs. 1910.1

Reviewed by F. Müller in Naturw. Wochenschr., 1911, n. s. **10**, 438–440. Contains a bibliography.

—— Beiträge zur Kenntnis der Panzerwelse. Zool. Jahrb. (*Abth. Anat.*), 1911, **31**, 497–528. 2 pls. 1911.1

—— Fische (In Handwörterbuch der Natur, 1913, Bd. ii, 1055–1107) 1913.1

—— Ueber die respiratorische Schwimmblase von Umbra. Zool. Jahrb. (*Abt. Allg. Zool. Physiol.*), 1914, **34**, 339–364. 10 figs. 1914.1

Gill-breathing inadequate. Swim-bladder duct a primitive respiratory heritage.

Ravenel, *Edmund.* On the recent Squalidæ of the coast of South Carolina, and a catalogue of the recent and fossil echinoderms of Carolina. Proc. Amer. Assoc. Adv. Sci., 4. meet., 1850, 159–161. 1850.1

Ravenel, *William de Chastignier* [1859 —] Information bearing upon the artificial propagation of mullet. Bull. U. S. Fish Comm. 1887 (1889), **7**, 197–202. 1889.1

—— Report of operations at Battery island, Havre de Grace, Maryland, for the year 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 765–777. 1889.2

—— Report of operations at the shad-hatching station on Battery island, Havre de Grace, Maryland, during the season of 1887. Bull. U. S. Fish Comm. 1887 (1889), **7**, 95–100. 1889.3

—— Report of the representative of the United States Fish Commission at the Cotton States and International Exposition at Atlanta, Georgia, in 1895. Rept. U. S. Fish Comm. 1896 (1898), **22**, 147–167. 11 pls. & figs. 1898.1

—— Report on the propagation and distribution of food-fishes. Rept. U. S. Fish Comm. 1896 (1898), **22**, 11–92. 10 pls. 1898.2

—— The Pan-American Exposition. Report of the representative of the United States Fish Commission. Rept. U. S. Fish Comm. 1901 (1902), **27**, 291–351. pl. 1902.1

—— Report on the propagation and distribution of food-fishes. Rept. U. S. Fish Comm. 1901 (1902), **27**, 21–110. 2 pls. & fig. 1902.2

Raveret-Wattel, *Casimir.* Progrès de la pisciculture aux Etats-Unis. Bull. Soc. Acclim. Paris, 1873, 2. sér. **10**, 785–810. 1873.1

—— Quelques considérations sur les causes du dépeuplement de nos rivières. Bull. Soc. Acclim. Paris, 1873, 2. sér. **10**, 545–559. 1873.2

—— Introduction de l'orfe en Angleterre. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 422. 1874.1

—— Den konstige fiskearls fremskridt i de nordamerikanske Fristater. Nord. Tidsskr. Fiskeri, 1874, **1**, 388–407. 1874.2

—— Les pêcheries du Canada. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 88–91. 1874.3

—— Le saumon du Sacramento. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 422–423. 1874.4

—— Transport du poisson vivant aux Etats-Unis. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 662–663. 1874.5

—— Le saumon de Californie (*Salmo quinnat* Richardson) Bull. Soc. Acclim. Paris, 1878, 3. sér. **5**, 19–28. 1878.1

—— La truite d'Amérique (*Salmo fontinalis* Rich.) Bull. Soc. Acclim. Paris, 1878, 3. sér. **5**, 445–453. 2 figs. 1878.2

—— American fish in France. Forest & Stream, 1879, **12**, 5–6. 1879.1

—— Rapport sur la pisciculture à l'exposition universelle de 1878. Bull. Soc. Acclim. Paris, 1879, 3. sér. **6**, 137–146. fig. 1879.2

—— The California salmon eggs in Europe. Chicago Field, 1880, **12**, 387. 1880.1

—— Shipment of salmon ova to France in 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 913. 1880.2

—— La station aquicole de Boulogne-sur-Mer. Rev. Sci. Nat. Appliq., 1880, 5 novembre. 1880.3

—— Rapport sur la situation de la pisciculture à l'étranger d'après les documents recueillis à l'Exposition Internationale de produits et d'engins de pêche de Berlin en 1880. Bull. Soc. Acclim. Paris, 1881, 3. sér. **8**, 449–479. *Ibid.*, 1882, **9**, 65–83; 393–416; 505–528. *Ibid.*, 1883, **10**, 289–317; 508–551; 638–677. 72 figs. 1881.1

Raveret-Wattel, *C.*

—— L'établissement de pisciculture de Gremaz (Ain) Bull. Soc. Acclim. Paris, 1882, 3. sér. **9**, 591–601. 1882.1

—— L'établissement de pisciculture d'Ettelbrück (Grand-duché de Luxembourg) Bull. Soc. Acclim. Paris, 1883, 3. sér. **10**, 695–702. 1883.1

—— Les irrigations au point de vue de la conservation du poisson. Bull. Soc. Acclim. Paris, 1883, 3. sér. **10**, 231–234. 1883.2

—— Report on the condition of pisciculture in foreign countries, from documents collected at the International Fishery Exposition at Berlin, 1880. Rept. U. S. Fish Comm. 1880 (1883), **8**, 477–489. 1883.3

—— Influence de la propagation artificielle du saumon dans le Sacramento (Californie) Bull. Soc. Acclim. Paris, 1884, 4. sér. **1**, 998–999. 1884.1

—— La pisciculture en Pologne. Bull. Soc. Acclim. Paris, 1884, 4. sér. **1**, 109–110. 1884.2

—— Les poissons migrateurs et les échelles à saumons. Bull. Soc. Acclim. Paris, 1884, 4. sér. **1**, 14–43; 321–362; 526–556; 636–652. 49 figs. 1884.3

—— Rapport sur les expositions internationales de pêche d'Edinbourg et de Londres (1882–1883) Bull. Soc. Acclim. Paris, 1884, 4. sér. **1**, 869–895. 12 figs. 1884.4

—— American fish being acclimatized in France. Bull. U. S. Fish Comm., 1885, **5**, 244; 423. 1885.1

—— Notes on the culture of American salmon in France. Bull. U. S. Fish Comm., 1885, **5**, 260. 1885.2

—— La pisciculture au Japon. Bull. Soc. Acclim. Paris, 1885, 4. sér. **2**, 538–541. 1885.3

—— La truite arc-en-ciel, *Salmo iridens*. Bull. Soc. Acclim. Paris, 1885, 4. sér. **2**, 83–92. 1885.4

—— L'appareil Chester pour l'incubation artificielle des œufs de morue à la station aquicole de Woods Hole. Bull. Soc. Acclim. Paris, 1886, 4. sér. **3**, 193–197. 1886.1

—— Nouveaux renseignements sur l'établissement de pisciculture de Gremaz (Ain) Bull. Soc. Acclim. Paris, 1887, 4. sér. **4**, no. 5. 1887.1

—— Insectes utiles et insectes nuisibles à la pisciculture. Bull. Insectologie Agricole, 1889. 1889.1

—— L'ombre (*Thymallus vexillifer*) Bull. Soc. Centr. Aquicult. Pêche, 1889, **1**, 45. 1889.2

—— The piscicultural establishment at Gremaz (Ain) France. Bull. U. S. Fish Comm. 1887 (1889), **7**, 207–211. 1889.3

—— La pisciculture à l'Exposition Universelle de 1889. Paris, 1889. 1889.4

—— Le sandre (*Lucioperca sandra*) Bull. Soc. Centr. Aquicult. Pêche, 1889, **1**, 125–134. 1889.5

—— L'aquiculture marine en Norvège. Bull. Soc. Acclim. Paris, 1890, **37**, 147–156; 246–257. 1890.1

—— L'élevage et la multiplication du saumon en eau close. Bull. Soc. Acclim. Paris, 1890, **37**, 737–742. 1890.2

—— Note sur un essai de rempoissonnement à Genève, avec des truites d'un an. Bull. Soc. Centr. Aquicult. Pêche, 1890, 213. 1890.3

—— Le passé et l'avenir de la pisciculture; coup d'œil historique sur l'industrie aquicole. Bull. Soc. Acclim. Paris, 1891, **38**, pt. 2, 264–280. 1891.1

—— Emploi du sang conservé pour la nourriture de l'alevin des salmonides. L'Agriculteur, 20 novembre, 1892. 1892.1

—— Les insectes au point de vue de la pisciculture. L'Agriculteur, 1892. 1892.2

—— Une nouvelle échelle à saumons, système Hockin. L'Agriculteur, 5 mai, 1893. 1893.1

—— The past and future of fish-culture. Trans. Amer. Fisheries Soc. 1892 (1893), 126–127. 1893.2

—— The piscicultural establishment at Gremaz (Ain) France. Trans. Amer. Fisheries Soc. 1892 (1893), 45–51. 1893.3

—— Station aquicole du Nid-de-Verdier, à Fécamp, travaux pendant la campagne de 1891–1892. Bull. Soc. Centr. Aquicult. Pêche, 1893, **5**, 159–164. 1893.4

—— Une visite à l'établissement de sciculture de Bessemont, près Villers-

Cotterets (Aisne) L'Agriculteur, 5 janvier, 1893. 1893.5

—— La station aquicole du Nid-de-Verdier, établissements départementaux de la Seine inférieure. Bull. Soc. Nat. Acclim. Paris, 1894, **41**. 1894.1

—— Bacs d'alevinage pour salmonides. Bull. Soc. Acclim. Paris, 1895, **42**, 621–624. 1895.1

—— L'élevage de la truite arc-en-ciel à la station aquicole de Neosho (Etats-Unis) Bull. Soc. Acclim. Paris, 1895, **42**, 572–576. 1895.2

—— L'établissement de pisciculture de Michaelstein (Brunswick) Bull. Soc. Centr. Aquicult. Pêche, 1895, **7**. 1895.3

—— Production et emploi de proies vivantes pour la nourriture des poissons. Bull. Soc. Acclim. Paris, 1895, **42**, 303–305. 1895.4

—— Travaux de pisciculture dans le département de l'Eure. Bull. Soc. Acclim. Paris, 1895, **42**, 689–692. 1895.5

—— L'omble-chevalier (*Salmo umbla*) Sa culture en Bohême et dans le Tyrol. Bull. Soc. Centr. Aquicult. Pêche, 1896, **8**, 85–95. fig. 1896.1

—— Sur les bacs d'alevinage employés à la station aquicole du Nid-de-Verdier. Bull. Soc. Centr. Aquicult. Pêche, 1896, **8**, 138–142. fig. *Ibid.*, 1899, **11**, 37–39. 1896.2

—— L'établissement de pisciculture de Sandfort, près Osnabrück (Hanovre) Bull. Soc. Centr. Aquicult. Pêche, 1897, **9**, 29–47. fig. 1897.1

—— La pisciculture en Californie. Bull. Soc. Centr. Aquicult. Pêche, 1898, **10**, 97–101. 1898.1

—— Atlas de poche des poissons d'eau douce de la France, de la Suisse romande et de la Belgique, avec leur description, mœurs et organisation. Paris, 1900. 167 p. 64 pls. 16°. 1900.1

—— Sur l'introduction de la truite d'Europe dans la colonie du Cap. Bull. Soc. Acclim. Paris, 1903, **50**, 343–345. 1903.1

—— La pisciculture. 2 vols. Paris, 1904–07. 8°. 1904.1

Vol. i. Traité pratique de l'élevage industriel du poisson (Salmonides) Paris, 1904. 379 p. 3 pls. & 125 figs.

Vol. ii. Le repeuplement des eaux et l'exploitation des étangs. Paris, 1907. vi, 508 p. 8°.

—— Sur l'acclimatation de la truite d'Europe dans le sud de l'Afrique. Bull. Soc. Acclim. Paris, 1904, **51**, 289–291. 1904.2

—— Sur les poissons de l'Algérie et de la Tunisie. Bull. Soc. Acclim. Paris, 1904, **51**, 214–217. 1904.3

—— Influence d'une nourriture abondante sur la fécondité du poisson. Bull. Soc. Centr. Aquicult. Pêche, 1905, **17**, 113–114. 1905.1

—— Sur l'élevage de la truite en Danemark. Bull. Soc. Centr. Aquicult. Pêche, 1906, **18**, 35–40. 1906.1

—— Sur la pisciculture en Suède et en Norvège. Bull. Soc. Acclim. Paris, 1906, **52**, 83–90. 1906.2

—— Une excursion aux pêcheries de Commacchio (Italie) Bull. Soc. Acclim. Paris, 1907, **54**, 376–392. 1907.1

—— Observations regarding the varieties of rainbow trout and the time of the spawning of the species. Trans. Amer. Fisheries Soc. 1907 (1908), 119–122. 1908.1

—— L'élevage du rock-bass. Bull. Soc. Acclim. Paris, 1910, **57**, 465–467. 1910.1

—— Le black-bass et son élevage. Bull. Soc. Acclim. Paris, 1911, **58**, 103–110; 138–147. pl. 1911.1

—— L'élevage de la carpe et de divers poissons d'ornement au Japon. Bull. Soc. Acclim. Paris, 1911, **58**, 566–572. 1911.2

—— Soins à donner à l'élevage du sandre. Bull. Soc. Acclim. Paris, 1912, **59**, 553–555. 1912.1

—— L'acclimatation du barbeau méridional dans le Sig (Oued Mékerra) Algérie. Bull. Soc. Acclim. Paris, 1913, **60**, 361–363. 1913.1

—— Ce qu'un étang à truites peut produire de poisson par mètre de superficie. Bull. Soc. Acclim. Paris, 1915, **62**, 45–47. 1915.1

—— Nouveaux renseignements sur la pisciculture en rivière. Bull. Soc. Acclim. Paris, 1915, **62**, 336–341. 1915.2

—— Pisciculture dans l'Alaska. Bull. Soc. Acclim. Paris, 1915, **62**, 18–22. 1915.3

—— La pisciculture dans les rivières. Bull. Soc. Acclim. Paris, 1915, **62**, 143–152. 1915.4

Raveret-Wattel, *Casimir,* & **Bartet,** —— Sur la reproduction du saumon de Californie, à l'aquarium du Trocadéro. C. R. Acad. Sci. Paris, 1873, **96**, 796–797. Abstract in Bull. Soc. Acclim. Paris, 3. sér. **10**, 205. 1873.1

Rawitz, *Bernhard* [1857 —] Ueber den Bau der Spinalganglien. II. Die Gliederung des Organes und vergleichende Anatomie desselben. Arch. Mikr. Anat., 1882, **21**, 244–290. 4 pls. 1882.1

Fische, p. 253–265.

—— Untersuchungen über Zellentheilung. II. Die Theilung der Hodenzellen und die Spermatogenese bei *Scyllium canicula* L. Arch. Mikr. Anat., 1898, **53**, 19–62. pl. 1898.1

—— Ueber die Blutkörperchen einiger Fische. Arch. Mikr. Anat., 1899, **54**, 481–513. 1899.1

—— Ueber die Blutkörperchen einiger Fische. II. Ganoiden und Teleostier. Arch. Mikr. Anat., 1900, **56**, 149–168. pl. 1900.1

—— Neue Methoden zur Untersuchung des Zentralnervensystems der Vertebraten. Zeitschr. Wiss. Mikr., 1909, **26**, 337–352. pl. 1909.1

Rawlinson, *Thomas E.* Observations on the sawfish. Trans. Phil. Inst. Victoria, 1858, **2**, 146–148. 1858.1

Ray, *John* [1628–1705] Memorials of J. Ray, edited by E. Lankester. Ray Soc. London, 1846. 220 p. 8°. 1846.1

—— The correspondence of J. Ray, edited by E. Lankester. Ray Soc. London, 1848. 502 p. 8°. 1848.1

Ray, *Playcard Augustin Fidèle.* Zoologie universelle et portative, ou histoire naturelle de tous les poissons, insectes et vers, ou nommés ou anonymes etc., le tout disposé selon l'ordre alphabétique et rapporté à l'ordre méthodique, avec un supplément. Paris, 1788. 4°. 1788.1

—— The same. 2. éd. Avec un nouveau supplément. Paris, 1804. xxiv, 710 p. 4°. 1804.1

Ray, *Robert.* Report on the examination of marine deposits in relation to the contents of fishes' stomachs from the Irish sea. 22. Rept. Lancashire Sea-Fisheries Lab. 1913 (1914), 250–278. — Trans. Liverpool Biol. Soc., 1914, **28**, 340–368. 1914.1

Raymond, —— Mémoire sur la topographie médicale de Marseille et de son territoire. Mém. Soc. Roy. Méd. Paris, 1777–78, **2**. 1777.1

Contains a carefully revised list of the species of fish found at Marseilles.

Raymond, *G. M.* Histoire des poissons (Encyclopédie portative) 2 vols. Paris, 1828. illust. 16°. 1828.1

Raynor, *J. Morrison.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 443. 1879.1

Razumovskiĭ, (*Count*) *Grigorii de* [— 1837] Histoire naturelle du Jorat et de ses environs; et celle des trois lacs de Neufchâtel, Morat et Bienne. 2 vols. Lausanne, 1789. 6 pls. 8°. 1789.1

Poissons, vol. i, 125–133.

Razzauti, *Alberto.* Sopra la quistione delle cellule epidermiche sensorie sparse dei petromizonti. Atti Soc. Toscana Sci. Nat., Proc. Verb., 1911, **20**, 3–8. 1911.1

—— Sopra la minuta innervazione degli organi a fossetta e dei bottoni terminali cutanei dei petromizonti. Monit. Zool. Ital., 1912, 23. anno, 250–254. 1912.1

—— Alcune ricerche sopra le terminazioni nervose motrici nei petromizonti. Monit. Zool. Ital., 1914, 25. anno, 117–124. 2 pls. 1914.1

Rea, *Paul Marshall* [1878 —] Sailfish. Bull. Charleston Museum, 1909, **5**, 61–62; 66. 1909.1

Reach, *Felix.* Untersuchungen über das Verhalten der Fette bei Torpedo während der Gravidität. Biochem. Zeitschr., 1912, **40**, 128–137. 1912.1

Reade, *Joseph Bancroft* [1801–1870] On some new organic remains in the flint of Chalk [fish-scales] Ann. Mag. Nat. Hist., 1839, **2**, 191–198. 2 pls. 1839.1

Reading, *J. J.* Capture of the swordfish off Plymouth. Zoologist, 1864, **22**, 8932. 1864.1

Reck, *Hans.* Zweite vorläufige Mitteilung über fossile Tier- und Menschenkunde aus Oldoway in Zentralafrika. Sitzber. Ges. Naturf. Freunde Berlin, 1914, 305–318. fig. 1914.1

Record, *William.* Testimony in regard to the present condition of the fisheries, taken in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 28–31. 1873.1

Redding, *B. B.* Letters relating to the San Joaquin river and its fishes. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 479–483. 1876.1

—— Spawning of California salmon. Fish. Gazette, 1878, n. s. **11**, 198–199.—Forest & Stream, 1878, **10**, 155. 1878.1

—— California fishes. Forest & Stream, 1879, **13**, 847. 1879.1

—— California salmon [*Oncorhynchus quinnat*] do not all die after spawning. Chicago Field, 1879, **11**, 237. 1879.2

—— Curious facts about trout jumping from flume into water below. Chicago Field, 1879, **11**, 404. 1879.3

—— Grand success of shad and salmon culture. Chicago Field, 1879, **11**, 277. 1879.4

—— How fish hear. Forest & Stream, 1879, **13**, 705. 1879.5

—— Interesting facts [regarding *Salmo kennerlyi*, etc.] from Washington territory. Forest & Stream, 1879, **12**, 154. 1879.6

—— Notes from the Fish Commission. Forest & Stream, 1879, **12**, 364. 1879.7

—— Rearing whitefish [*Coregonus clupeiformis*] in confinement. Chicago Field, 1879, **11**, 67–68. 1879.8

Redding, *Joseph D.* Character of the carp introduced by Capt. Henry Robinson about 1830. Bull. U. S. Fish Comm., 1884, **4**, 266–267. 1884.1

—— Causes of the decrease of salmon in the Sacramento river. Bull. U. S. Fish Comm. 1887 (1889), **7**, 57–58. 1889.1

Redeke, *Heinrich Carl.* Het urogenitaalsysteem der selachiers en holocephalen. Inaug. Dissert. Helder, 1898. 87 p. 2 pls. 8°. 1898.1

—— Kleine Beiträge zur Anatomie der Plagiostomen. Tijdschr. Nederland. Dierk. Ver., Leiden, 1899, 2. ser. **6**, 119–136. 2 pls. 1899.1

—— Aanteekeningen over den bouw van het maagdarmslijmvlies der selachiers. Tijdschr. Nederland. Dierk. Ver., Leiden, 1900, 2. ser. **6**, 284–303. pl. 1900.1

—— Die sogenannte Bursa entiana der Selachier. Anat. Anz., 1900, **17**, 146–159. 3 figs. 1900.2

Pyloric cæca in sharks.

—— Sprot in de haven van Nieuwediep en de Heinck'sche methode. Meded. Vissch., Helder, 1900, **7**, 177–190. 1900.3

—— Einiges über die Prike [Text in Dutch] Meded. Vissch., Helder, 1901, **8**, 12–16; 23–30; 43–47. 1901.1

—— Friedrich Heinck's onderzoekingen over den haring. Album Natuur, 1901. 17 p. 1901.2

—— Variationsstatistische Untersuchungen über Fischrassen. Zusammenfassende Uebersicht. Zool. Centralbl., 1902, **9**, 645–670. 1902.1

—— Over de schol aan onze kust. Jaarb. Rijksinst. Onderz. Zee, Helder, 1904, 38–50. 1904.1

Pleuronectidæ on the Dutch coast.

—— Die holländischen Versuche mit gezeicheneten Schollen 1903–1905. Verh. Rijksinst. Onderz. Zee, Helder, 1905, **1**, pt. 2, 1–22. 1905.1

—— Korte beschryving der vischtuigen bij de Nederlandsche zeevisscheryen in gebruik. Helder, 1905. 14 p. pl. 8°. 1905.2

—— Die Verbreitung der Scholle an der holländischen Küste. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1905, **3** (*Append. H*), 1–11. 1905.3

—— Verslag omtrent onderzoekingen over het voedsel van eenige visschen. Jahrb. Rijksinst. Onderz. Zee, Helder, 1905, 88–111. 1905.4

—— Ueber einige Versuche mit Netzen. Verh. Rijksinst. Onderz. Zee, Helder, 1906, **1**, 1–14. 1906.1

—— Onderzoekingen omtrent de voortplanting en den groei van den kabeljauw en eenige zijner verwanten in de zuidelijke Noordzee. Meded. Vissch., Helder, 1907, **14**, 85–88. 1907.1

—— Rapport over onderzoekingen betreffende de visscherij in de Zuiderzee ingesteld in de jaren 1905 en 1906. Gravenhage, 1907. 339 p. 38 pls. 2 maps. 8°. 1907.2

—— Een nieuwe visch voor de Zuiderzee-fauna. Meded. Vissch., Helder, 1908, **15**, 57–59. 1908.1

—— Bericht über die holländischen Arbeiten zur Naturgeschichte der Gadiden in den Jahren 1902 bis 1906.

Redeke, *H. C.*
Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1909, **10**, no. 6, 1–26. 8 figs. 1909.1

i. Verbreitung von Eiern, Jungfische, u. s. w. der Gadiden.
ii. Geographische Verbreitung, Wachstum und Wanderung der Gadiden.

—— Bericht über die holländische Schollenfischerei und über die Naturgeschichte der Scholle in der südlichen Nordsee. Verh. Rijksinst. Onderz. Zee, Helder, 1909, **2**, 3–63. map. 1909.2

—— Over eenige uitkomsten van het internationaal onderzoek der zee. Werken Genoots. Bevor. Nat.-Genees-Heelk., Amsterdam, 1909, 2. ser. **6**, pt. 2, 105–112. pl. 1909.3

—— Ueber den Sprott und die Sprottfischerei in Holland. Mitt. Deutsch. Seefischerei Ver., 1910, **26**, 158–183. 1910.1

—— Die holländischen Versuche mit gezeichneten Schollen; zweiter Bericht. Verh. Rijksinst. Onderz. Zee, Helder, 1911, **3**, pt. 1, 1–26. map. 1911.1

—— Natuurlijke historie onzer zeevisschen, een handleiding ten gebruike bij het visscherijonderwijs. Helder, 1911. 92 p. pl. 8°. 1911.2

—— Visschen verzameld op de tochten met de "Wodan" 1902–1911 (In his Bijdragen tot de fauna zuidelijke Noordzee. 9. Jaarb. Onderz. Zee, Helder, 1911, 63–85) 1911.3

—— Visschen der zuidelijke Noordzee. Jaarb. Rijksinstit. Onderz. Zee, 1911, 65–86. 1911.4

—— Op de grens. Meded. Vissch., Helder, 1912, **19**, 183–187; 201–207. *Ibid.*, 1913, **20**, 30–37. 1912.1

—— Over vischrassen. Meded. Vissch., Helder, 1912, **19**, 64–69; 84–86; 100–105; 117–122; 140–143. 1912.2

—— Ueber den gegenwärtigen Stand unserer Kenntnis von den Rassen der wichtigsten Nutzfische. I. Allgemeiner Teil. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1912, **14**, 35. 1912.3

—— Bijdragen tot de kennis van de teelt der ansjovis in de Zuiderzee. I. De verspreiding der eieren en larven. Verh. Visscherijonderzoek, Haarlem, 1913, **1**, 38–57. 1913.1

—— Over den tegenwoordigen stand van het schollenvraagstuk in de Noordzee. Meddel. Vissch., Helder, 1913, **20**, 169–174. 1913.2

—— Vijf en twintig jaren wetenschappelijk onderzoek in het belang der visscherij. Meddel. Vissch., Helder, 1913, **20**, 39–48. 1913.3

—— Bydragen tot de kennis van de teelt der ansjovis in de Zuiderzee. 2. Stuk, over den groei der Zuiderzee-ansjovis. Rapp. Verhand, Ryksinst. Onderz. Zee, 1914, **1**, 241–266. 4 pls. 1914.1

—— De intocht der ansjovis. Med. Vissch. Helder, 1914, **21**, 34–38. 1914.2

—— De spiering en de spieringvisscherj. Med. Vissch. Helder, 1914, **21**, 51–54; 70–74. 1914.3

—— Nieuwe naamlyst der visschen van Nederland en het aangrenzende Noordzeegebied. Med. Vissch. Helder, 1915, **22**, 7–16. 1915.1

Redeke, *Heinrich Carl,* & **Breemen,** *P. J. van.* Die Verbreitung der planktonischen Eier und Larven einiger Nutzfische in der südlichen Nordsee mit einem Anhang über die Jungfische der Gadiden. Verh. Rijksinst. Onderz. Zee, Helder, 1908, **2**, pt. 2, 1–38. 4 pls. 1908.1

Redeke, *Heinrich Carl,* & **Liebert,** *F.* Verslag over de vermoedelijke oorzaak van ziekte en dood van zalmen in Juni 1912 in de Maas bij Maastricht waargenomen. Verh. Visscherijonderzoek, Haarlem, 1913, **1**, 26–30. 1913.1

Redeke, *Heinrich Carl,* & **Tesch,** *J. J.* Ueber die wirtschaftliche Bedeutung und die Naturgeschichte der Seezunge (*Solea vulgaris*) Verh. Rijksinstit. Onderz. Zee, Helder, 1911, **3**, pt. 3, 1–33. 1911.1

Redfern, *Peter.* On the structure of the otoliths of the cod (*Gadus morrhua*) Rept. Brit. Assoc. Adv. Sci., 29. meet., 1859, 174–175. 1859.1

Redfield, *John Howard* [1825–1895] Fossil fishes of Connecticut and Massachusetts, with a notice of an undescribed genus. Ann. Lyc. Nat. Hist. N. Y., 1837, **4**, 35–40. pl. Notice in Neues Jahrb. Mineral., 1839, 248. 1837.1

The original of Redfield's illustration of *Catopterus gracilis* is refigured by C. R. Eastman in State Geol. Nat. Hist. Surv. Conn., 1911, Bull. no. 18, pl. ix.

—— Report on the fossil fishes of the United States, read before the Association of American Geologists and Naturalists at New Haven, Conn., in 1845. 1845.1

This manuscript report was never separately published, but copious extracts from it are contained in J. S. Newberry's Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut valley. Monogr. U. S. Geol. Surv., 1888, **14**, 1–152.

Redfield, *William C.* [1801–1877] For biographical sketch, see Olmsted, —— Scientific life and labors of W. C. Redfield. New Haven, 1857.

—— Fossil fishes in Virginia. Amer. Journ. Sci., 1838, **34**, 201. 1838.1

Catopterus gracilis is mentioned.

—— Fossil fishes of the [Triassic] Red Sandstone. Amer. Journ. Sci., 1839, **36**, 186–187. 1839.1

Mentions only *Catopterus gracilis* and an undescribed species of "Palæoniscus."

—— Short notices of American fossil fishes. Amer. Journ. Sci., 1841, **41**, 24–28. 1841.1

Five species of Semionotus and four of Catopterus are described.

—— Notice of newly discovered fishbeds and a fossil footmark in the Red Sandstone formation of New Jersey. Amer. Journ. Sci., 1843, **44**, 134–136. fig. 1843.1

Three species of Semionotus are mentioned.

—— On the newly-discovered ichthyolites in the New Red Sandstone of New Jersey. Proc. Geol. Soc. London, 1846, **4**, 23. — Phil. Mag., London, 3. ser. **23**, 186. 1846.1

—— On the geological age and affinities of the fossil fishes which belong to the sandstone formation of Connecticut, New Jersey, and the coalfield near Richmond, in Virginia. Ann. Sci., Cleveland, Ohio, 1853, **1**, 270–271. 1853.1

Abstract of communication made to the American Association for the Advancement of Science.

—— On the relations of the fossil fishes of the sandstone of Connecticut and other Atlantic states to the Liassic and Jurassic periods. Proc. Amer. Assoc. Adv. Sci., 10. meet., 1856, pt. 2, 180–188. — Amer. Journ. Sci., 1856, 2. ser. **22**, 357–363. 1856.1

Redlefgmal, *E.* Fische-Atlas; unsere einheimischen und fremdländischen Fische. Wien, 1909. 93 figs. 12°. 1909.1

Redlich, *K. A.* Ein Ptychoduszahn (*Ptychodus granulosus*, n. sp.) in Wiener Sandstein von Hütteldorf. Jahrb. Geol. Reichsanst., Wien, 1896, **45**, 219–224. fig. 1896.1

Redmond, *Roland.* On rainbow trout reared from eggs brought from California. Bull. U. S. Fish Comm. 1883, **3**, 230. 1883.1

Red Spinner, pseudonym for **Svinhafoud,** *Sigürd.*

Redtenbacher, ——, **Heckel,** *Johan Jakob,* & **Fenzl,** *Eduard.* *See* **Fenzl, Heckel** & **Redtenbacher.**

Redwood, *Theophilus.* Eulachon oil. Proc. U. S. Nat. Mus., 1880, **3**, 262–263. 1880.1

Reed, *A. G.* Blindness of salmon. Proc. Acad. Nat. Sci. Philad., 1874, 216–217. 1874.1

Reed, *C. F.* Fish breeding. Trans. Calif. State Agric. Soc. 1868–69 (1870), 28. 1870.1

Reed, *Chester A.* Goldfish, aquaria, ferneries. Worcester, Mass., 1908. 185 p. illust. 12°. 1908.1

Reed, *Dwight T.* The fisheries of Spain in 1879. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1195–1196. 1885.1

Reed, *Edwyn C.* Catálogo de los peces Chilenos. Ann. Universidad, 1897. 24 p. 1897.1

See also the faunal lists of Chilean fishes cited under Delfin, F. T., 1898.1, and Porter, C. E., 1909.1, *supra.*

—— The fisheries in Chile. Chilean Comm. Buffalo Exposition, 1901, 5–25. 1901.1

Reed, *Hugh Daniel.* The structure of the poison glands of *Schilbeodes gyrinus.* Proc. Amer. Assoc. Advanc. Sci., 49. meet., 1900, 232–233. Abstract in Science, 1900, n. s. **12**, 304. 1900.1

—— The poison glands of Noturus and Schilbeodes. Amer. Naturalist, 1907, **41**, 553–566. 5 figs. 1907.1

Reed, *Hugh Daniel,* & **Wright,** *Albert H.* The vertebrates of the Cayuga lake basin. Proc. Amer. Phil. Soc., 1909, **48**, 370–459. 4 pls. 1909.1

Reed, *Thomas S.* Ocean depths: their contents and surroundings. Proc. Geogr. Soc. Australasia, South Austral. Branch, 1904, **7**, 1–15. 3 pls. 1904.1

Contains reference to deep-sea fishes.

Reeker, *H.* Westfalens Tierleben. III. Taderborn, 1892. 1892.1

—— Zum Gedächtniss und Gehör der Fische. Die Natur, 1898, **47**, 248–249. 1898.1

—— Lebensalter und Wachstum des Aales. 37. Jahresb. Westfäl. Prov.-Ver., 1909, 22–23. 1909.1

Reese, *Albert Moore.* Lampreys in captivity. Biol. Bull. Woods Hole, 1900, **1**, 161–162. — Science, n. s. **11**, 555. 1900.1

—— Structure and development of the thyroid gland in Petromyzon. Proc. Acad. Nat. Sci. Philad., 1902, 85–112. 4 pls. 1902.1

—— The lateral line system of *Chimæra colliei.* Journ. Exper. Zool., 1910, **9**, 349–370. 18 figs. 1910.1

Reeve, *Henry Fenwick.* The Gambia; its history, etc. A description of the birds, beasts and fishes found therein. London, 1912. 287 p. 8°. 1912.1

Reeves, *Cora D.* The breeding habits of the rainbow darter (*Etheostoma cæruleum* Storer) a study in sexual selection. Biol. Bull. Woods Hole, 1907, **14**, 35–59. 1907.1

Reeves, *I. S. K.* Description of the fresh and saltwater supply and pumping plants used for the aquarium. Bull. U. S. Fish Comm. 1893 (1894), **13**, 159–161. 1894.1

Reeves, *John* [1774–1856] A history of the law of shipping and navigation. London, 1792. 8°. 1792.1

The fisheries, chap. v.

—— Autograph lists of the water-color drawings of Chinese fish, painted for him by native artists at Macao and Canton in 1828–29 with some lists of the subjects in Chinese. fol. 1828–29. 1828.1

Reeves' complete collection of water-color drawings by native artists is preserved in the library of the British Museum of Natural History. A similar set of water-color drawings on rice-paper, comprising about 250 Chinese fishes, is contained in the Fearing collection of Harvard College library, Cambridge.

Reeves, *Robert William Cary.* On the Irish salmon fisheries. Dublin Quart. Journ. Sci., 1863, **3**, 130–142. — Journ. Roy. Dublin Soc. 1863–65 (1866), **4**, 101–113. 1866.1

Regan, *Charles Tate* [1878 —] On the classification of the fishes of the suborder Plectognathi; with notes and descriptions of new species from specimens in the British Museum collection. Proc. Zool. Soc. London, 1902, pt. 2, 284–303. 2 pls. & 4 figs. 1902.1

—— On the fishes from the Maldive islands (In Gardiner, J. S. The fauna and geography of the Maldive and Laccadive archipelagoes, vol. i, p. 272–281. Cambridge, 1902) 1902.2

—— On the systematic position of *Luvarus imperialis* Rafinesque. Ann. Mag. Nat. Hist., 1902, **7**. ser. **10**, 278–281. 1902.3

—— A revision of the fishes of the family Stromateidæ. Ann. Mag. Nat. Hist., 1902, 7. ser. **10**, 115–131; 194–207. 1902.4

—— Description of a new fish of the genus Chætostomus from Venezuela. Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 599. 1903.1

—— Description of a new fish of the genus Genypterus, with notes on the allied species. Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 599–600. 1903.2

—— Descriptions de poissons nouveaux faisant partie de la collection du Musée d'Histoire Naturelle de Genève. Revue Suisse Zool., Genève, 1903, **11**, 413–418. 2 pls. 1903.3

—— Descriptions of new South American fishes in the collection of the British Museum. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 621–630. 1903.4

—— Notes on the genus Synaptura Cantor, with descriptions of two new species. Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 56–58. pl. 1903.5

—— On a collection of fishes from the Azores. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 344–348. 1903.6

—— On a collection of fishes made by Dr. Goeldi at Rio Janeiro. Proc. Zool. Soc. London, 1903, **2**, 59–68. 2 pls. 1903.7

—— On the genus Lichia of Cuvier. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 348–350. 1903.8

—— On the skeleton and systematic position of *Luvarus imperialis.* Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 372–374. fig. 1903.9

—— On the systematic position and classification of the gadoid or anacanthine fishes. Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 459–466. 2 figs. 1903.10

—— A revision of the fishes of the family Lophiidæ. Ann. Mag. Nat. Hist., 1903, 7. ser. **11**, 277–285. 1903.11

—— A revision of the fishes of the genus Triacanthus. Proc. Zool. Soc. London, 1903, 180–185. 1903.12

—— Description of a new fish of the genus Chætodon from the New Hebrides. Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 276–277. fig. 1904.1

—— Descriptions of *Holocentrum osculum* Poey, and of a new fish of the genus Centropomus. Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 259–261. 1904.2

—— Descriptions of new or little-known fishes from Mexico and British Honduras. Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 255–259. 1904.3

—— Descriptions of three new marine fishes from South Africa. Ann. Mag. Nat. Hist., 1904, 7. ser. **14**, 128–130. 1904.4

—— Descriptions of two new cyprinid fishes from Yunnan Fu. Ann. Mag. Nat. Hist., 1904, 7. ser. **14**, 416–417. 1904.5

—— A monograph of the fishes of the family Loricariidæ. Trans. Zool. Soc. London, 1904, **17**, 191–350. 3 pls. 1904.6

—— On a collection of fishes made by Mr. John Graham at Yunnan Fu. Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 190–194. 1904.7

—— On the affinities of the genus Draconetta, with description of a new species. Ann. Mag. Nat. Hist., 1904, 7. ser. **14**, 130–131. 1904.8

—— The phylogeny of the Teleostomi. Ann. Mag. Nat. Hist., 1904, 7. ser. **13**, 329–349. pl. & figs. 1904.9

—— A collection of fishes made by Dr. H. Gadow in southern Mexico. Ann. Mag. Nat. Hist., 1905, 7. ser. **16**, 361–363. 1905.1

—— Description de six poissons nouveaux faisant partie de la collection du Musée d'Histoire Naturelle de Genève. Rev. Suisse Zool., 1905, **13**, 389–393. 2 pls. 1905.2

—— Description of *Acara subocularis* Cope. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 557–558. 1905.3

—— Description of a new fish of the genus Dentex [*D. cuninghamii*, sp. nov.] from the coast of Angola. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 325. 1905.4

—— Description of a new loricariid fish of the genus Xenocara [*X. rothschildi*, n. sp.] from Venezuela. Novit. Zool., 1905, **12**, 242. 1905.5

—— Descriptions of five new cyprinid fishes from Lhasa, Tibet, collected by Captain H. J. Walton. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 185–188. 1905.6

—— Descriptions of three new fishes from Japan, collected by Mr. R. Gordon Smith. Ann. Mag. Nat. Hist., 1905, 7. ser. **16**, 363–365. 1905.7

—— Descriptions of two new cyprinid fishes from Tibet. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 300–301. 1905.8

—— [Exhibition of, and remarks upon a series of sketches of fishes of the Rio Negro and its tributaries] Proc. Zool. Soc. London, 1905, pt. 1, 189–190. 1905.9

—— Note on *Hexanchus griseus*. Ann. Mag. Nat. Hist., 1905, 7. ser. **16**, 571–572. 1905.10

—— On a collection of fishes from the inland sea of Japan made by Mr. R. Gordon Smith. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 17–26. 1905.11

—— On fishes from the Persian gulf, the sea of Oman and Karachi, collected by Mr. F. W. Townsend. Journ. Bombay Nat. Hist. Soc., 1905, **16**, 318–333. 1905.12

—— A revision of the fishes of the American cichlid genus Cichlosoma and of the allied genera. Ann. Mag. Nat. Hist., 1905, 7. ser. **16**, 60–77; 225–243; 316–340; 433–445. 1905.13

—— A revision of the fishes of the family Galaxiidæ. Proc. Zool. Soc. London, 1905, 363–384. 4 pls. 1905.14

—— A revision of the fishes of the South American cichlid genera Acara, Nannacara, Acaropsis and Astronotus. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 329–347. 1905.15

Regan, *C. T.*

—— A revision of the fishes of the South American cichlid genera Crenacara, Batrachops and Crenicichla. Proc. Zool. Soc. London, 1905, pt. 1, 152–168. 2 pls. 1905.16

—— A synopsis of the species of the silurid genera Parexostoma, Chimarrhichthys and Exostoma. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 182–185. 1905.17

—— The systematic arrangement of the fishes of the genus Arges. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 529–534. 3 figs. 1905.18

—— A classification of the selachian fishes. Proc. Zoöl. Soc. London, 1906, 722–758. 10 figs. 1906.1

—— A collection of fishes from the King river, western Australia. Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 450–453. 1906.2

—— Description of a new cyprinodont fish of the genus Jenynsia from Argentina. Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 154. 1906.3

—— Descriptions of five new freshwater fishes from Sarawak, Borneo, collected by Dr. C. Hose. Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 66–68. 1906.4

—— Descriptions of new or little-known fishes from the coast of Natal. Ann. Natal Govt. Mus., London, 1906, **1**, pt. 1, 1–6. 5 pls. 1906.5

—— Descriptions of some new sharks in the British Museum collection. Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 435–440. 1906.6

—— Descriptions of two new cyprinid fishes from Yunnan Fu, collected by Mr. John Graham. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 332–333. 1906.7

—— Notes on some loricariid fishes, with descriptions of two new species. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 94–98. 1906.8

—— On the freshwater fishes of the island of Trinidad, based on the collection, notes and sketches made by Mr. Lechmere Guppy, Jr. Proc. Zool. Soc. London, 1906, pt. 1, 378–393. 5 pls. 1906.9

—— Pisces (In Godman, F. D., & Salvin, O. Biologia Central-Americana, pt. 193, 1–32. pls. London, 1906) 1906.10

For continuation, *see Ibid.*, pt. 215, London, 1915.

—— A revision of the fishes of the South American cichlid genera Cichla, Chætobranchus and Chætobranchopsis, with notes on the genera of the American Cichlidæ. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 230–239. 1906.11

—— A revision of the South American cichlid genera Retroculus, Geophagus, Heterogramma and Biotœcus. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 49–66. 1906.12

—— Two new cyprinoid fishes from the Helmand basin. Journ. Proc. Asiat. Soc. Bengal, Calcutta, 1906, **2**, 8–9. 1906.13

—— The vendaces of Lochmaben and of Derwentwater and Bassenthwaite lakes, *Coregonus vandesius* and *Coregonus gracilior*. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 180–182. pl. 1906.14

—— Description of a new cyprinid fish of the genus Danio from upper Burma. Records Indian Museum, Calcutta, 1907, **1**, 395. 1907.1

—— Description of two new characinid fishes from South America. Ann. Mag. Nat. Hist., 1907, 7. ser. **20**, 402–403. 1907.2

—— Descriptions of new loricariid fishes from South America. Proc. Zool. Soc. London, 1907, 795–800. 3 pls. & figs. 1907.3

—— Descriptions of six new freshwater fishes from Mexico and Central America. Ann. Mag. Nat. Hist., 1907, 7. ser. **19**, 258–260. 1907.4

—— Descriptions of the teleostean fish *Velifer hypselopterus* and of a new species of the genus Velifer. Proc. Zool. Soc. London, 1907, 633–634. 1907.5

—— Descriptions of three new fishes from Yunnan, collected by Mr. J. Graham. Ann. Mag. Nat. Hist., 1907, 7. ser. **19**, 63–64. 1907.6

—— Descriptions of two new charicinid fishes from Argentina. Ann. Mag. Nat. Hist., 1907, 7. ser. **19**, 261–262. 2 figs. 1907.7

—— Diagnoses of new Central American freshwater fishes of the families Cyprinodontidæ and Mugilidæ. Ann. Mag. Nat. Hist., 1907, 7. ser. **19**, 64–66. 1907.8

—— Fishes (Reports on a collection of batrachia, reptiles and fish from

Nepal and the western Himalayas) Records Indian Museum, Calcutta, 1907, **1**, 157–158. 1907.9

—— Note on *Raia undulata* Lacép. Ann. Mag. Nat. Hist., 1907, 7. ser. **20**, 403–404. 1907.10

—— On the anatomy, classification and systematic position of the teleostean fishes of the suborder Allotriognathi. Proc. Zool. Soc. London, 1907, 634–643. 6 figs. 1907.11

—— A collection of fishes from the coasts of Natal, Zululand and Cape Colony. Ann. Natal Govt. Mus., 1908, **1**, 241–255. 6 pls. 1908.1

—— A collection of freshwater fishes made by Mr. C. F. Underwood in Costa Rica. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 455–464. 1908.2

—— Description of a new cichlid fish of the genus Heterogramma [*H. steindachneri*, n. sp.] from Demerara. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 370–371. fig. 1908.3

—— Description of a new fish of the genus Cichlosoma [*C. lauræ*, n. sp.] from Tampico with notes on some other fishes from Mexico and the Caribbean sea. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 222–223. 1908.4

—— Description of a new fish of the genus Galaxias [*G. bullocki*, n. sp.] from Chile. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 372. 1908.5

—— Description of a new loricariid fish of the genus Plecostomus [*P. tæniatus*, n. sp.] from Argentina. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 358. 1908.6

—— Descriptions of four new freshwater fishes from British New Guinea. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 153–156. 1908.7

—— Descriptions of new fishes from lake Candidius, Formosa, collected by Dr. A. Moltrecht. Ann. Mag. Nat. Hist., 1908, 8 ser. **2**, 358–360. 1908.8

—— Descriptions of new freshwater fishes from China and Japan. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 149–153. 1908.9

—— Descriptions of three new cyprinoid fishes from Yunnan, collected by Mr. John Graham. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 356–357. 1908.10

—— Descriptions of three new freshwater fishes from China. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 109–111. 1908.11

—— The Duke of Bedford's zoological exploration in eastern Asia. VIII. A collection of freshwater fishes from Corea. Proc. Zool. Soc. London, 1908, 59–63. 2 pls. 1908.12

—— Exhibition of and remarks upon an Australian catfish, *Cnidoglanis megastoma*. Proc. Zool. Soc. London, 1908, pt. 1, 345–346. 1908.13

—— The hybrid between the bream and the rudd (*Abramis brama* × *Leuciscus erythrophthalmus*) Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 162–165. 2 pls. 1908.14

—— A new generic name for an orectolobid shark [Heteroscyllium n. nom. pro Brachælurus Ogilby 1907 non 1906] Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 454–455. 1908.15

—— A preliminary revision of the Irish char. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 225–234. 6 figs. 1908.16

— Report on the marine fishes collected by Mr. J. Stanley Gardiner in the Indian ocean. Trans. Linn. Soc. London (*Zool.*), 1908, 2. ser. **12**, 217–255. 9 pls. 1908.17

—— A revision of the British and Irish fishes of the genus Coregonus. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 482–490. 1908.18

—— A revision of the sharks of the family Orectolobidæ. Proc. Zool. Soc. London, 1908, 347–364. 2 pls. 1908.19

—— A synopsis of the fishes of the subfamily Salanginæ. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 444–446. 1908.20

—— A synopsis of the sharks of the family Cestraciontidæ. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 493–497. 1908.21

—— A synopsis of the sharks of the family Scylliorhinidæ. Ann. Mag. Nat. Hist., 1908, 8. ser. **1**, 453–465. 1908.22

—— A synopsis of the sharks of the family Squalidæ. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 39–57. 1908.23

—— The systematic position of *Stylophorus caudatus*. Ann. Mag. Nat. Hist., 1908, 8. ser. **2**, 447–449. 1908.24

Regan, *C. T.*

The char (Salvelinus) of Great Britain. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 111–122. 2 figs. 1909.1

—— Asiatic fishes of the family Anabantidæ. Proc. Zool. Soc. London, 1909, 767–787. 3 pls. 1909.2

—— The char of Ireland. Irish Naturalist, 1909, **18**, 3–6. 2 figs. 1909.3

—— The classification of teleostean fishes. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 75–86. 1909.4

—— A collection of fishes made by Dr. C. W. Andrews, F.R.S., at Christmas island. Proc. Zool. Soc. London, 1909, 403–406. 2 pls. 1909.5

—— Description of a new cichlid fish of the genus Heterogramma [*H. pleurotænia*, n. sp.] from the La Plata. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 270. 1909.6

—— Descriptions of new marine fishes from Australia and the Pacific. Ann. Mag. Nat. Hist., 1909, 8. ser. **4**, 438–440. 1909.7

—— Descriptions of three new freshwater fishes from South America, presented to the British Museum by Herr J. Paul Arnold. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 234–235. 1909.8

—— Exhibition of sketches of, and remarks upon colour changes in some fishes in the New York aquarium. Proc. Zool. Soc. London, 1909, 130–132. 1909.9

—— Exhibition of two species of char (*Salvelinus grayi* and *S. maxillaris*) Proc. Zool. Soc. London, 1909, 98. 1909.10

—— A new specific name for an orectolobid shark. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 529. 1909.11

—— On colour-changes in fishes. Proc. Zool. Soc. London, 1909, 130–132. 1909.12

—— On the anatomy and classification of the scombroid fishes. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 66–75. 4 figs. 1909.13

—— A revision of the fishes of the genus Elops. Ann. Mag. Nat. Hist., 1909, 8. ser. **3**, 37–40. 1909.14

—— The species of three-spined sticklebacks (Gasterosteus) Ann. Mag. Nat. Hist., 1909, 8. ser. **4**, 435–437. 1909.15

—— The anatomy and classification of the teleostean fishes of the order Zeomorphi. Ann. Mag. Nat. Hist., 1910, 8. ser. **6**, 481–484. 1910.1

—— The caudal fin of the Elopidæ and of some other teleostean fishes. Ann. Mag. Nat. Hist., 1910, 8. ser. **5**, 354–358. 2 figs. 1910.2

—— Die Gattung Betta [Uebersetzung aus dem Englischen von W. Wolterstorff] Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 489–491; 505–509. 8 figs. 1910.3

—— The lough Finn char (*Salvelinus trevelyani*) Irish Naturalist, 1910, **19**, 228. 1910.4

—— On the caudal fin of the Clupeidæ, and on the teleostean urostyle. Ann. Mag. Nat. Hist., 1910, 8. ser. **5**, 531–533. 2 figs. 1910.5

—— The origin and evolution of the teleostean fishes of the order Heterosomata. Ann. Mag. Nat. Hist., 1910, 8. ser. **6**, 484–496. 3 figs. 1910.6

—— The air-bladder of the clupeoid fishes. Science, 1911, n. s. **24**, 684. 1911.1

—— The anatomy and classification of the teleostean fishes of the order Iniomi. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 120–133. 7 figs. 1911.2

—— The anatomy and classification of the teleostean fishes of the order Salmopercæ. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 294–296. 2 figs. 1911.3

—— The anatomy and classification of the teleostean fishes of the orders Berycomorphi and Xenoberyces. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 1–9. pl. & 2 figs. 1911.4

—— The classification of the teleostean fishes of the order Ostariophysi. I. Cyprinoidea. Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 13–32. pl. & 2 figs. 1911.5

—— The classification of the teleostean fishes of the order Ostariophysi. II. Siluroidea. Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 553–557. 3 figs. 1911.6

—— The classification of the teleostean fishes of the order Synentognathi. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 327–335. pl. & 4 figs. 1911.7

—— The freshwater fishes of the British Isles. London, 1911. xxv, 287 p. 37 pls. 8°. 1911.8

Review in Nature, 1911, **88**, 373–374.

—— The giant pike (Esox) of loch Ken. Ann. Scott. Nat. Hist., 1911, 10–14. 1911.9

—— A new pœciliid fish [*Palosoma amazonum*, n. sp.] from the Amazon, with notes on the genera Petalosoma and Tomeurus. Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 659–660. 2 figs. 1911.10

—— On the cirrhitiform percoids. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 259–262. 1911.11

—— On some fishes of the family Pœciliidæ. Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 373–374. 1911.12

Xiphophorus rachovii, n. sp. Xenopœcilus, n. g. pro *Haplochilus sarasinorum*.

—— On the systematic position of *Macristium chavesi*. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 204–205. fig. 1911.13

—— The osteology and classification of the gobioid fishes. Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 729–733. 2 figs. 1911.14

—— The osteology and classification of the teleostean fishes of the order Microcyprini. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 320–327. pl. 1911.15

—— A synopsis of the marsipobranchs of the order Hyperoartii. Ann. Mag. Nat. Hist., 1911, 8. ser. **7**, 193–204. 1911.16

—— *Xiphophorus brevis* Regan und *Xiphophorus rachovii* Regan. Blätt. Aquar.-Terrar. Kunde, 1911, **22**. Jahrg., 806–807. 1911.17

—— The anatomy and classification of the symbranchoid eels. Ann. Mag. Nat. Hist., 1912, 8. ser. **9**, 387–390. pl. 1912.1

—— The anatomy and classification of the teleostean fishes of the order Discocephali. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 634–637. 2 figs. 1912.2

—— The anatomy and classification of the teleostean fishes of the order Lyomeri. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 347–349. 3 figs. 1912.3

—— The Caristiidæ, a family of berycomorphous fishes. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 637–638. 1912.4

—— The classification of the blennioid fishes. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 265–280. 4 figs. 1912.5

—— The classification of the teleostean fishes of the order Pediculati. Ann. Mag. Nat. Hist., 1912, 8. ser. **9**, 277–289. 6 figs. 1912.6

—— Description of a new characid fish from the Amazon [*Iguanodectes rachovii*, n. sp.] Ann. Mag. Nat. Hist., 1912, 8. ser. **9**, 682–683. 1912.7

—— Description of two new eels from West Africa, belonging to a new genus and family. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 323–324. 1912.8

—— Descriptions of new cichlid fishes from South America in the British Museum. Ann. Mag. Nat. Hist., 1912, 8. ser. **9**, 505–507. 1912.9

—— Descriptions of new fishes of the family Loricariidæ in the British Museum collection. Proc. Zool. Soc. London, 1912, 666–670. 3 pls. 1912.10

—— Discussion on Wallace's line. Rept. Brit. Assoc. Adv. Sci., 81. meet. 1911 (1912), 433–435. 1912.11

—— New fishes from Aldabra and Assumption, collected by Mr. J. C. F. Fryer. Trans. Linn. Soc. London (*Zool.*), 1912, **15**, 301–302. 1912.12

—— Notes on the classification of the teleostean fishes. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 838–853. 1912.13

—— The origin of the chimæroid fishes. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 836–837. 1912.14

—— The osteology and classification of the teleostean fishes of the order Apodes. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 377–387. 2 figs. 1912.15

—— The osteology of the teleostean fishes of the order Opisthomi. Ann. Mag. Nat. Hist., 1912, 8. ser. **11**, 217–219. fig. 1912.16

—— Philippine sharks; Nasisqualus, Acanthidium and Deunia. Science, 1912, n. s. **36**, 81. 1912.17

—— Pisces, record of literature for 1911. Zool. Record, 1912, **48**. 47 p. 1912.18

—— A revision of the pœciliid fishes of the genera Rivulus, Pterolebias, and Cynolebias. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 494–508. 1912.19

—— A revision of the South American characid fishes of the genera Chalceus,

Regan, *C. T.*
Pyrrhulina, Copeina and Pogonocharax. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 387–395. 1912.20

—— A revision of the South American siluroid fishes of the genus Corydoras with a list of the specimens in the British Museum (Natural History) Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 209–220. 1912.21

—— Sexual differences in the pœciliid fishes of the genus Cynolebias. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 641–642. 1912.22

—— A synopsis of the myxinoids of the genus Heptatretus or Bdellostoma. Ann. Mag. Nat. Hist., 1912, 8. ser. **9**, 534–536. 1912.23

—— The Twaite shad in Killarney lakes. Irish Naturalist, 1912, **21**, 63. 1912.24

—— The antarctic fishes of the Scottish National Antarctic Expedition. Trans. Roy. Soc. Edinburgh, 1913, **49**, 229–292. pls. 1913.1

—— The classification of the percoid fishes. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 111–145. 1913.2

—— A collection of fishes made by Professor Francisco Fuentes at Easter island. Proc. Zool. Soc. London, 1913, 368–374. 6 pls. 1913.3

—— A deep-sea angler fish, *Melanocetus johnsonii.* Proc. Zool. Soc. London, 1913, 1096–1097. 1913.4

—— Description of a new cyprinid fish from Singapore. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 394. 1913.5

—— Description of a new loricariid fish of the genus Plecostomus from Rio Janeiro. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 555. 1913.6

—— Description of two new fishes from Paranagua, Brazil, presented to the British Museum by Herr A. Rachow. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 231–232. 1913.7

—— The fishes described by Carmichael from Tristan da Cunha. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 466–468. 1913.8

—— Fishes from Peru, collected by Dr. H. O. Forbes. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 278–280. 1913.9

—— Fishes from the river Ucayali, Peru, collected by Mr. Mounsey. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 281–283. 1913.10

—— The fishes of the San Juan river, Colombia. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 462–473. 1913.11

—— Note on *Myxine capensis*. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 217. 1913.12

—— The osteology and classification of the teleostean fishes of the order Scleroparei. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 169–184. 5 figs. 1913.13

—— *Phallostethus dunckeri,* a remarkable new cyprinodont fish from Johore. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 548–555. 4 figs. 1913.14

—— Pisces; record of the literature for 1912. Zool. Record, 1913, **49**, 52 p. 1913.15

—— The pœciliid fishes of the genus Jenynsia. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 232–234. 5 figs. 1913.16

—— *Raia undulata,* Lacépède, and its distribution on the British coasts. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 80–82. pl. 1913.17

—— A revision of the cyprinodont fishes of the subfamily Pœciliinæ. Proc. Zool. Soc. London, 1913, 977–1018. 3 pls. & 6 figs. 1913.18

—— A revision of the fishes of the genus Kuhlia. Proc. Zool. Soc. London, 1913, 374–381. 2 figs. 1913.19

—— A revision of the myxinoids of the genus Myxine. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 395–398. 1913.20

—— A synopsis of the cichlid fishes of the genus Crenicichla. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 498–504. 1913.21

—— A synopsis of the siluroid fishes of the genus Liocassis, with descriptions of new species. Ann. Mag. Nat. Hist., 1913, 8. ser. **11**, 547–554. 1913.22

—— Ueber *Xiphophorus rachovii.* Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 532. 1913.23

—— Fishes (In British Antarctic "Terra Nova" Expedition, 1910. Zoology, vol. i, no. 1, p. 1–54. 13 pls. & 8 figs. London, 1914. 4°) 1914.1

i. Systematic: The antarctic fishes. Fishes from New Zealand. Fishes from Brazil, p. 1–23. ii. General: The distribution of antarctic and subantarctic fishes. The antarctic continent during the Tertiary period, p. 24–54.

—— Description of a new cyprinodont fish of the genus Mollienisia from Yucatan. Ann. Mag. Nat. Hist., 1914, 8. ser. **13**, 338. 1914.2

—— Descriptions of two new cyprinodont fishes from Mexico, presented to the British Museum by Herr A. Rachow. Ann. Mag. Nat. Hist., 1914, 8. ser. **14**, 65–67. 2 figs. 1914.3

Descriptions are given of two new species of Heterophallus, n. g. and Gambusia.

—— Diagnoses of new marine fishes collected by the British Antarctic ("Terra Nova") Expedition. Ann. Mag. Nat. Hist., 1914, 8. ser. **13**, 11–17. 1914.4

—— Fishes from the Condoto river, Colombia, collected by Dr. H. G. F. Spurrell. Ann. Mag. Nat. Hist., 1914, 8. ser. **14**, 31–33. 1914.5

Three new species are described of Sternarchus, Hypopomus and Sicydium.

—— Fishes from Yunnan, collected by Mr. John Graham, with description of a new species of Barilius [*B. alburnops*] Ann. Mag. Nat. Hist., 1914, 8. ser. **13**, 260–261. 1914.6

—— Die Gattung Xiphophorus Heckel. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 94–96. figs. 1914.7

—— Note on *Aristeus goldiei* Macleay, and on some other fishes from New Guinea. Proc. Zool. Soc. London, 1914, 339–340. 2 figs. 1914.8

—— Report on the freshwater fishes collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea. Trans. Zool. Soc. London, 1914, **20**, 275–286. pl. 1914.9

Rhadinocentrus ornatus, n. sp. *Anisocentrus rubrostriatus*, Chilatherina, Centratherina, and Rhombosoma, n. g.

—— A synopsis of the fishes of the family Macrorhamphosidæ. Ann. Mag. Nat. Hist., 1914, 8. ser. **13**, 17–21. 1914.10

—— The systematic arrangement of the fishes of the family Salmonidæ. Ann. Mag. Nat. Hist., 1914, 8. ser. **13**, 405–408. 3 figs. 1914.11

—— Two new cyprinid fishes from Waziristan, collected by Major G. E. Bruce. Ann. Mag. Nat. Hist., 1914, 8. ser. **13**, 261–263. 2 figs. 1914.12

—— A collection of fishes from Lagos. Ann. Mag. Nat. Hist., 1915, 8. ser. **15**, 124–130. 1915.1

Seven new species are described of Rhynchobatus, Hoplunnis, Uranoscopus, Lepidotrigla, Solea, Cynoglossus and Batrachoides.

—— Pisces, record of literature for 1913. Zool. Record, 1915, **51**. 28 p. 1915.2

—— Reptilia, Batrachia and Pisces (In Godman, F. D., & Salvin, O. Biologia Central-Americana. Zoology. Introductory volume, pt. 215. 149 p. London, 1915) 1915.3

—— The British fishes of the subfamily Clupeinæ and related species in other seas. Ann. Mag. Nat. Hist., 1916, 8. ser. **18**, 1–19. 3 pls. 1916.1

—— Fishes from Natal, collected by Mr. Romer Robinson. Ann. Durban Mus., 1916, **1**, pt. 3, 167–170. 1916.2

—— Larval and post-larval fishes (In British Antarctic "Terra Nova" Expedition, 1910. Zoology, vol. i, no. 4, p. 125–156. 10 pls. London, 1916) 1916.3

Notice in Nature, 1916, **97**, 247. Treats of ontogenetic changes, problems of distribution, migration and evolution of structural peculiarities which disappear with larval life.

—— A new loricariid fish of the genus Cyclopium from Ecuador. Ann. Mag. Nat. Hist., 1916, 8. ser. **18**, 80. 1916.4

Regan, *Charles Tate,* **Boulenger,** *G. A.,* **Annandale,** *N.,* & **Wall,** *E.* *See* **Boulenger, Annandale** & others.

Regaud, *Claude.* Sur les mitochondries des cellules ciliées du tube urinaire. Ont-elles une relation avec la fonction motrice de ces cellules? C. R. Soc. Biol., 1908, **65**, 206–208. 1908.1

La lamproie et d'autres vertébrés à sang froid.

—— Variations des formations mitochondriales dans les tubes à cuticule striée du rein. C. R. Mém. Soc. Biol., 1908, **64**, 1145–1147. 1908.2

Cellules ciliées dans le rein de la lamproie.

Regaud, *Claude,* & **Policard,** *A.* Notes histologiques sur la sécrétion rénale, 1901–02. 1901.1

i. Etude sur le tube urinifère de la lamproie. C. R. Mém. Soc. Biol. Paris, 1901, **53**, 1186–1187.
ii. Le segment cilié du tube urinifère de la lamproie. *Ibid.*, 1902, **54**, 91–93.

Regaud & Policard.

iii. Le segment à bordure en brosse du tube urinifère de la lamproie. *Ibid.*, **54**, 129–131.

iv. Les diverticules glandulaires du tube contourné de la lamproie. *Ibid.*, **54**, 554–555. — C. R. Assoc. Anat., Nancy, 1902, **4**, 245–261.

Regazzoni, *Innocenzo.* Notizie dei pesci delle provincie di Como e Sondrio e del cantone Ticino. Como, 1864. 8°. 1864.1

—— (*translator*) La piscicoltura. Prima versione italiana del Tedesco di Carlo Vogt. Como, 1865. 185 p. 8°. 1865.1

Regelsperger, *Gustave.* Les pêcheries du littoral saharien français (Mission Gruvel) La Nature, 1905, **34**, pt. 1, 129–131. 1905.1

Regnard, *Paul.* Influence des hautes pressions sur l'éclosion des œufs de poisson. C. R. Mém. Soc. Biol. Paris, 1885, 8. sér. **2**, 48. 1885.1

—— Sur le résultat de l'immersion d'un poisson dans une solution faible de chlorhydrate de cocaine. C. R. Mém. Soc. Biol. Paris, 1885, 8. sér. **2**, 33–34. 1885.2

—— Les phénomènes de la vie sous les hautes pressions. La contraction musculaire. C. R. Mém. Soc. Biol. Paris, 1887, 8. sér. **4**, 265–269. 1887.1

—— De l'action des chromoblastes chez la carpe et la tanche. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 5–6. 1893.1

—— Dynamomètre permettant de mesurer la puissance musculaire de l'appareil caudal du poisson. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 80. figs. 1893.2

—— Om fiskarnes snabbhet. Fiskeritidskr. Finl., 1893, **2**, 45. 1893.3

—— La pêche au cable creux. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 575–578. figs. 1893.4

—— Sur un dispositif qui permet de mesurer la vitesse de translation d'un poisson se mouvant dans l'eau. C. R. Mém. Soc. Biol. Paris, 1893, 9. sér. **5**, 81–83. figs. 1893.5

—— Actions des très basses températures sur les animaux aquatiques. C. R. Mém. Soc. Biol. Paris, 1895, 10. sér. **2**, 652–653. 1895.1

—— Sur l'action statique de la vessie natatoire des poissons. C. R. Mém. Soc. Biol. Paris, 1895, **47**, 653–654. 1895.2

—— Sur la température des animaux immergés dans l'eau. C. R. Mém. Soc. Biol. Paris, 1895, 10. sér. **2**, 651–652. 1895.3

Regnard, *Paul,* & **Blanchard,** *Raphael.* Etude sur la capacité respiratoire du sang des animaux plongeurs; sa comparaison avec la capacité respiratoire du sang des autres animaux. Bull. Soc. Zool. France, 1883, **8**, 136–138. 1883.1

Regnard, *Paul,* & **Jolyet,** *F. See* **Jolyet & Regnard.**

Regnault, *V.*, **Reiset,** *J.*, & **Millon,** *E.* Recherches chimiques et physiques sur le phénomène de la respiration dans les diverses classes d'animaux. C. R. Acad. Sci. Paris, 1848, **26**, 4–12; 17–27. — Journ. Prak. Chimie (Erdmann), **43**, 166–175. 1848.1

Regny, *Paola Eugenio Vinassa de. See* **Vinassa de Regny,** *P. E.*

Reguart, *Antonio Sañez.* Diccionario historico de los artes de la pesca nacional. 5 vols. Madrid, 1791–1795. illust. 4°. 1791.1

Reguis, *J. F. Marius* [1850 —] Essai sur l'histoire naturelle de la Provence et des départements circonvoisins. Paris, 1877. 84 p. 8°. 1877.1

—— Essai sur l'histoire naturelle des vertébrés de la Provence et des départements circonvoisins. Vertébrés anallantoïdiques (poissons et batraciens) Marseille, 1882. 429 p. illust. 8°. 1882.1

Poissons, p. 35–340.

—— Faune ichthyologique de Vaucluse. Mém. Acad. Vaucluse, Avignon, 1896, **15**, 196–233; 265–312. figs. 1896.1

—— Faune ichthyologique du département de Vaucluse. Mém. Acad. Vaucluse, Avignon, 1898, **17**, 23–66. figs. 1898.1

Reiber, *F.* L'histoire naturelle des eaux Strasbourgeoises de Léonard Baldner (1666) Bull. Soc. Hist. Nat. Colmar, 1887, 1–114. 1887.1

For a modern German edition of Baldner's 17th century "Fischbuch," with commentary, *see* Lauterborn, R., 1903.1, *supra.*

Reibisch, *Johannes.* Uebersicht der bis jetzt im Königreiche Sachsen aufgefundenen lebenden Fische. Sitzber. Ges. Isis, Dresden, 1868, 101–104. 1868.1

—— Ueber die Eizahl bei *Pleuronectes platessa* und die Altersbestimmung dieser Form aus den Otolithen. Wiss. Meeresuntersuch. Kiel (*Abth. Kiel*), 1899, n. s. **4**, 233–248. pl. 1899.1

—— Ueber den Einfluss der Temperatur auf die Entwickelung von Fisch-Eiern. Wiss. Meeresuntersuch. Kiel (*Abth. Kiel*), 1902, n. s. **6**, pt. 2, 213–231. pl. 1902.1

—— Weitere Untersuchungen über die Verbreitung junger Schollen an der deutschen Ostseeküste im Sommer 1904. Mitt. Deutsch. Seefischerei Ver., 1904, **20**, 397–404. 2 figs. 1904.1

—— Ueber die Verbreitung junger Plattfische des ersten Jahrganges an der deutschen Ostseeküste in den Jahren 1905 und 1906. Mitt. Deutsch. Seefischerei Ver., 1907, **23**, 34–50. 1907.1

—— Ein Dicken-Koeffizient als Mass für Alter und Ernährungszustand der Fische. 4.–5. Jahresb. Beteil. Deutschlands Intern. Meeresforschung, Berlin, 1908, 59–65. 1908.1

—— Die Methoden zur Bestimmung des Alters bei Seefischen. Bull. Biol., Jurjev, 1908, **2**, 178–180. 1908.2

—— Biologische Untersuchungen über Gedeihen, Wanderung und Ort der Entstehung der Scholle (*Pleuronectes platessa*) in der Ostsee. Wiss. Meeresuntersuch. Kiel (*Abth. Kiel*), 1911, n. s. **13**, 127–202. pl. & 11 figs. 1911.1

Reich, *M.* Zur Histologie der Hechtretina. Arch. Ophth. Berlin, 1874, **20**, 1. Abth., 1–14. 1874.1

Reichard, *Adolf C.* Das Fischereibureau der Vereinigten Staaten von Nordamerika. Allgem. Fischerei Zeitg., 1904, **29**, 21–25. 1904.1

—— Die deutschen Versuche mit gezeichneten Schollen. II. Bericht. Wiss. Meeresuntersuch. Kiel (*Abth. Helgoland*), 1909, n. s. **9**, 1–56. 9 pls. 1909.1

—— Die deutschen Versuche mit gezeichneten Schollen. III. Bericht. Wiss. Meeresuntersuch. Kiel (*Abth. Helgoland*), 1910, n. s. **10**, 43–115. 5 pls. 1910.1

—— Die deutschen Versuche mit gezeichneten Schollen. Wiss. Meeresuntersuch. (*Abth. Helgoland*), 1915, n. s. **11**, 1–35. 6 pls. 1915.1

—— Ergebnisse der bisherigen internationalen Schollen-Markierungen in der Nordsee. Wiss. Meeresuntersuch. (*Abth. Helgoland*), 1915, n. s. **11**, 37–64. 11 pls. 1915.2

Reichard, *A. O.* Bemerkungen zu der Veröffentlichung von W. Krebs "Geophysikalische Verhältnisse auf den Fundstellen der Aallarven im Atlantik und im Mittelmeer." Der Fischerbote, 1911, 3. Jahrg., 285–288. 1911.1

Reichardt, *Eduard* [1827–1891] Reinigung des Abfallwassers. Circul. Deutsch. Fisherei Ver. 1879 (1880), no. 6, 220–223. 1880.1

—— The injurious influence on pisciculture of the retting water of flax and hemp. Rept. U. S. Fish Comm. 1880 (1883), **8**, 545–500. 1883.1

Reichel, *P.* Beitrag zur Morphologie der Mundhöhlendrüsen der Wirbelthiere. Morph. Jahrb., 1882, **8**, 1–72. pl. 1882.1

Fische, p. 7–8.

Reichelt, *Julius. Barbus lateristriga;* bunte Barbe aus Bukit Timah auf Singapore. Natur u. Haus, 1906, 14. Jahrg., 179–180. fig. 1906.1

—— *Eleotris marmorata;* marmorierte Grundel von Sumatra. Natur u. Haus, 1906, 14. Jahrg., 208–210. 1906.2

—— *Etroplus suratensis* (Bloch) breiter bunter Schmuckfisch von Ceylon. Natur u. Haus, 1906, 14. Jahrg., 198–199. fig. 1906.3

—— Fischfang auf Malacca und den Sundainseln. Natur u. Haus, 1906, 14. Jahrg., 129–131. 1906.4

—— *Gobius xanthozona* (Bleeker) gelbgegürtelter Schmutzwasserfisch Borneos. Natur u. Haus, 1906, 14. Jahrg., 145–146. fig. 1906.5

—— *Hemiramphus fluviatilis;* halbschnäbeliger Hecht aus Malakka. Natur u. Haus, 1906, 14. Jahrg., 118–120. fig. 1906.6

—— *Rasbora heteromorpha* (Duncker) kleine bunte Barbe aus Singapore. Natur u. Haus, 1906, 14. Jahrg., 251–252. fig. 1906.7

—— *Tetrodon fluviatilis;* vierzähniger bunter Kugelfisch aus Sumatra. Natur u. Haus, 1906, 14. Jahrg., 138. fig. 1906.8

Reichelt, *J.*

—— *Boleophthalmus pectinirostris* L. und *Periophthalmus koelreuteri* (Pall.) Bl. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 309–312. 2 figs. 1910.1

—— *Pœcilia* (?) *amazonica* Garman. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 511–512. fig. 1910.2

—— *Pœcilia heteristia* Regan. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 705–707. fig. 1910.3

—— *Rasbora cephalotænia* Bleek., eine längsgestreifte Barbe von den Sundainseln. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 229–230. 1910.4

Reichenbach, *Anton Benedict* [1807–1880] Die Fische, dargestellt in getreuen Abbildungen und mit ausführlicher Beschreibung. Leipzig, 1838–40. 160 p. 60 pls. & 382 figs. fol. 1838.1

Reichenbach, *Ernst Stromer von.* *See* **Stromer von Reichenbach,** (*Baron*) *Ernst.*

Reichenbach, *Heinrich Gottlieb Ludwig* [1793–1879] Deutschlands Fauna, oder praktischgemeinnützige Naturgeschichte der Thiere des Inlandes, mit naturgetreuen Abbildungen aller Arten. 2 vols. Leipzig, 1842. 8°. 1842.1

See also **Wimmer,** *J.* Geschichte des deutschen Bodens, etc. Halle a. S., 1905.

Reichenheim, *Max.* Beiträge zur Kenntniss des electrischen Centralorgans von Torpedo. Arch. Anat. Physiol., 1873, 751–759. 2 pls. 1873.1

—— Ueber das Rückenmark und den electrischen Lappen von Torpedo. Berlin, 1873. 24 p. 3 pls. figs. 4°. 1873.2

—— Sopra il midollo spinale ed il lobo elettrico della torpedine. Mem. R. Accad. Lincei, Roma, 1877, 3. ser. **1**, 1142–1162. 1877.1

Reichenow, *Anton* [1847 —] Ueber die ichthyologischen Sammlungen der deutschen Expedition nach der Loango-Küste. Sitzber. Ges. Naturf. Freunde Berlin, 1875, 146–148. 1875.1

—— Uebersicht der Fische aus Chinchoxo und anderen Gegenden Westafrikas, welche die Afrikanische Gesellschaft dem Berliner zoologischen Museum übersandt hat. Monatsber. Akad. Wiss. Berlin, 1877, 621–624. 1877.1

Reichenow, *Anton,* **Tornier,** *G.,* **Pappenheim,** *P.,* & **Matschie,** *P.* *See* **Matschie, Reichenow** & others.

Reicher, Eleonora. Ueber das Haftorgan von *Gobius fluviatilis.* Mitt. Naturf. Ges. Bern 1912 (1913), 322–347. 3 pls. 1913.1

Reichert, *Carl Bogislaus* [1811–1883] Ueber die Micropyle der Fischeier und über einen bisher unbekannten, eigenthümlichen Bau des Nahrungsdotters reifer und befruchteter Fischeier (Hecht) Arch. Anat. Physiol. (Müller), 1856, 83–124. pl. & 4 figs. 1856.1

—— Ueber die Müller-Wolff'schen Körper bei Fischembryonen und über die sogenannten Rotationen des Dotters im befruchteten Hechteie. Arch. Anat. Physiol. (Müller), 1856, 124–143. 1856.2

—— Der Nahrungsdotter des Hechteies. Arch. Anat. Physiol. (Müller), 1857, 46–51. 1857.1

—— Beobachtungen über die ersten Blutgefässe und deren Bildung, sowie über die Bewegung des Blutes in denselben bei Fischembryonen. Leipzic, 1858. pl. 4°. 1858.1

—— Zur Anatomie des *Branchiostoma lubricum.* Arch. Anat. Physiol. (Müller), 1870, 755–758. — Sitzber. Ges. Naturf. Freunde Berlin, 1870, 23–26. 1870.1

—— Ueber den sogenannten Seitenmuskel der Fische. Sitzber. Ges. Naturf. Freunde Berlin, 1871, 14–18. 1871.1

—— Ueber den asymmetrischen Bau, vornehmlich des Kopfes und Obergesichts der Pleuronectiden. Sitzber. Ges. Naturf. Freunde Berlin, 1873, 83–94. *Ibid.*, 1874, 85–88. — Arch. Anat. Physiol. (Müller), 1874, 196–216. 2 pls. 1873.1

—— Ueber das vordere Ende der Chorda dorsalis bei frühzeitigen Haifisch-Embryonen (*Acanthias vulgaris*) Abh. Akad. Wiss. Berlin, 1877, 49–122. 2 pls. 1877.1

i. Geschichtliche Einleitung.
ii. Anatomische Beschreibung des Embryos.
iii. Anatomische Feststellung des vorderen gebeugten Abschnittes der Chorda dorsalis.

—— Ueber das vordere Ende der Chorda dorsalis bei frühzeitigen Haifisch-Embryonen (*Acanthias vulgaris*) Sitzber. Ges. Naturf. Freunde Berlin, 1878, 161–169. 1878.1

Reichert, *J.* *Luciocephalus pulcher*, lebendgebärender Hecht aus Sumatra, und *Osphromenus malayanus*, lebendgebärender Gurami von der malayischen Halbinsel und von Sumatra. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 4–5; 122–123. 2 figs. 1906.1

Reid, *A. P.* Natural history and the fisheries. Proc. Trans. Nova Scotian Inst. Nat. Sci., 1877, **4**, pt. 2, 131–137. 1877.1

Reid, *Clement*, & **Reid,** *Eleanor M.* The fossil flora of Tegelen-sur-Meuse, near Venloo, in the province of Limburg [with list of fishes] Verh. Akad. Wet., Amsterdam, 2. sect., 1907, **13**, no. 6, 1–14. 1907.1

Reid, *E. Waymouth.* Mucin granules of Myxine. Journ. Physiol., 1893, **14**, 340–346. pl. 1893.1

—— Chemical note on the secretion of *Myxine glutinosa.* Journ. Physiol., 1894, **15**, 488–493. 1894.1

—— The electromotive properties of the skin of the common eel. Phil. Trans. Roy. Soc. London, 1894, **184** *B*, 335–365. fig. Abstract in Proc. Roy. Soc. London, **52**, 391–392. 1894.2

—— The process of secretion in the skin of the common eel. Phil. Trans. Roy. Soc. London, 1894, **185** *B*, 319–354. 3 pls. Abstract in Proc. Roy. Soc. London, **54**, 36–41. 1894.3

Reid, *E. Waymouth*, & **Tolputt,** *A. G.* Further observations on the electromotive properties of the skin of the common eel. Journ. Physiol., 1894, **16**, 203–223. fig. 1894.4

Reid, *John.* An account of a specimen of the vaagmaer, or *Vogmarus islandicus* [*Trachypterus vogmarus* of Cuvier and Valenciennes] thrown ashore in the Firth of Forth. Ann. Mag. Nat. Hist., 1849, 2. ser. **3**, 456–477. 1849.1

Reid, *John.* Report of the fish commissioner of Missouri. Forest & Stream, 1879, **12**, 104. 1879.1

Reidel, *W.* Zur Frage der Maifisch-Erbrütung. Allgem. Fischerei Zeit., 1894, **19**, 59–60. 1894.1

Reider, *Jakob Ernst von.* Das Ganze der Fischerei als Angel- Netz-Fischerei und Teichwirthschaft, sammt der Naturgeschichte der deutschen Fischarten; ein Handbuch für Fischerei- und Teichbesitzer, mit einem Anhang die Zubereitung der Fische aller Art als Speise. Nürnberg, 1825. xvi, 335 p. 8°. 1825.1

Reider, *Jakob Ernst von*, & **Hahn,** *Carl Wilhelm.* Fauna Boica, oder Gemeinnützige Naturgeschichte der Thiere Bayerns. 6. Abth. [in 4 vols.] Nürnberg, 1830–35. 8°. 1834.1

4. Abth., Bayern's Fische. Systematische Uebersicht der Fische, p. i–xii. 37 col. pls. 1834.

Reifschneider, *Otto.* Ueber das Präparieren von Fischen. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 351–352. 2 figs. 1909.1

Reighard, *Jacob Ellsworth* [1861 —] The development of the wall-eyed pike, *Stizostedion vitreum* Raf. A popular introduction to the development of bony fishes. 9. Biennial Rept. Michigan State Board Fish Comm., 1890 (Appendix), 95–158. 10 pls. 1890.1

—— Experiments in the impregnation of pike-perch eggs. Trans. Amer. Fisheries Soc. 1890 (1891), 30–36. 1891.1

Presented at the meeting by Mr. Herschel Whitaker and erroneously attributed to him by the editor of the Transactions.

—— Old and new suggestions concerning artificial fertilization, with a method of handling adhesive eggs. 10. Biennial Rept. Michigan State Board Fish Comm., 1893, 165–171. 1893.1

—— The ripe eggs and the spermatozoa of the wall-eyed pike. 10. Biennial Rept. Michigan State Board Fish Comm., 1893, 93–172. 1893.2

—— A biological examination of lake St. Clair. Bull. Michigan Fish Comm., 1894, no. 4, 1–41. 2 pls. 1894.1

—— Some plankton studies in the Great Lakes. Bull. U. S. Fish Comm. 1893 (1894), **13**, 127–142. pl. 1894.2

—— Suggestions for an experimental method of determining the efficiency of quantitative nets. Bull. Michigan Fish Comm., 1894, no. 4, 57–60. 1894.3

—— The breeding of Amia. Science, 1900, n. s. **11**, 251–252. 1900.1

—— The development of the adhesive organ and hypophysis in Amia. Science, 1900, n. s. **11**, 251. 1900.2

—— Exhibition of figures for a normentafel of Amia with an account of methods of photographing the embryo. Science, 1900, n. s. **11**, 249. 1900.3

Reighard, *J. E.*

—— Plan for the investigation of the biology of the Great Lakes. Trans. Amer. Fisheries Soc. 1899 (1900), 65–71. 1900.4

—— On the anterior head-cavity of the elasmobranchs. Abstract in Rept. Michigan Acad. Sci., 1901, 81. 1901.1

—— Some further notes on the breeding habits of Amia. Abstract in Rept. Michigan Acad. Sci., 1901, 80–81. 1901.2

—— The breeding habits of the dogfish, *Amia calva*. 1. Rept. Michigan Acad. Sci., 1902, 133–137. pl. 1902.1

—— An experimental study of the spawning behavior of *Lampetra wilderi*. Science, 1903, n. s. **17**, 529. 1903.1

—— The function of the pearl organs of the Cyprinidæ. Science, 1903, n. s. **17**, 531. 1903.2

—— Further observations on the breeding habits and on the function of the pearl organs in several species of Eventognathi. Science, 1904, n. s. **19**, 211–212. 1904.1

—— The natural history of *Amia calva* Linnæus (In Mark Anniversary Volume, no. 4, p. 57–109. pl. & fig. New York, 1904) 1904.2

—— [Review of] A guide to the study of fishes, by David Starr Jordan. Science, 1905, n. s. **22**, 861–865. 1905.1

—— The breeding habits, development and propagation of the black bass. 16. Biennial Rept. Michigan State Board Fish Comm., 1906 (Appendix), 1–63. 2 pls. & 11 figs. — Bull. Michigan Fish Comm., 1906, no. 7. 1906.1

—— On the identification for legal purposes of mutilated or dressed specimens of whitefish or herring from the Great Lakes. Proc. Amer. Fisheries Soc. 1906 (1907), 47–54. 3 figs. 1907.1

—— An experimental study of color discrimination, association and memory in the gray snapper, *Lutianus griseus* (Linnæus) and of warning coloration in coral-reef fishes. 6. Yearbook Carnegie Inst. Washington, 1908, 117–118. — Pub. Tortugas Lab. Carnegie Inst. Washington, **2**, 257–325. 5 pls. Abstract in Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 154–155. 1908.1

—— The photography of aquatic animals in their natural environment. Bull. Bureau Fisheries, 1908, **27**, 41–68. pl. & fig. 1908.2

—— Methods of studying the habits of fishes, with an account of the breeding habits of the horned dace. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 1111–1136. 7 pls. & 5 figs. 1910.1

—— The pearl organs of American minnows in their relation to the factors of descent. Science, 1910, n. s. **31**, 472. 1910.2

—— The breeding habits of the log-perch (*Percina caprodes*) 15. Rept. Michigan Acad. Sci., 1913, 104–105. 1913.1

—— Improvement of fishing through a knowledge of the breeding habits of fishes. Trans. Amer. Fisheries Soc. 1913 (1914), 97–104. 1914.1

—— A plea for the preservation of records concerning fish. Trans. Amer. Fisheries Soc. 1913 (1914), 105–110. 1914.2

—— A peculiar color display in the yellow grunt. Copeia, 1915, no. 22, 33–35. 1915.1

Reighard, *Jacob Ellsworth*, & **Mast,** *S. O.* Studies on ganoid fishes. II. The development of the hypophysis of Amia. Journ. Morphol., 1908, **19**, 497–509. pl. 1908.1

Reighard, *Jacob Ellsworth*, & **Phelps,** *Jessie*. The development of the adhesive organ and head mesoblast of Amia. Journ. Morphol., 1908, **19**, 469–496. pl. 1908.1

Reighard, *Paul*. A plan for promoting the whitefish production of the Great Lakes. Proc. 4. Intern. Fishery Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 1, 643–684. 1910.1

Rein, *Gabriel*. Geographiska och statistiska notiser om Kuopio län. Suomi, 1846, **5**, 187–239. 1846.1

—— Geographiska och statistiska notiser om Uleåborgs län. Suomi, 1847, **6**, 261–333. 1847.1

—— Materialier till utredande af Finlands statistik. I. Kuopio län. Bidrag Finl. Naturkän. Finsk Vetensk. Soc., 1864, **10**, 1–363. 1864.1

—— Materialier till utredande af Finlands statistik. II. Uleåborga län. Bidrag Känned. Finl. Natur & Folk, 1867, **10**, 1–371. 1867.1

Reinhard, *W.* Entwicklung der Keimblätter, der Chorda und des Mitteldarmes bei den Cyprinoiden. Zool. Anz., 1888, **11**, 648–655. 2 figs. 1888.1

—— Entwicklungsgeschichte der Cypriniden [Text in Russian] Charkow, 1888. col. pl. 8°. 1888.2

—— Die Bedeutung des Periblastes und der Kupffer'schen Blase in der Entwickelung der Knochenfische. Arch. Mikr. Anat., 1898, **52**, 793–820. 2 pls. 1898.1

—— On the significance of the periblast and Kupffer's vesicle in the development of bony fishes [Text in Russian] Trav. Soc. Natural. Charcow, 1898, **31**, 243–268. pl. 1898.2

—— Zur Frage über die Bedeutung des Periblastes in der Entwicklung der Knochenfische. Vorläufige Mitteilung. Biol. Centralbl., 1899, **19**, 486–487. — Trav. Soc. Natural. Charcow, 1899, **33**, 403–408. 1899.1

Reinhardt, *Johannes Christopher Hagemann* [1776–1845] Om venernes gang i fiskenes svömmeblærer. Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1821–22, 3–5. — Dansk. Vid. Selsk. Afh. Kjøbenhavn, **1**, lxxvii. 1822.1

—— Ichthyologiske bidrag [*Spinax acanthias, S. gunneri, S. fabricii, Macrourus cœlorhynchus, M. rupestris, M. strœmii*] Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1824–25, 2–3. 1825.1

—— Neue Arten von Squalus. Dansk. Vid. Selsk. Afh. Kjøbenhavn, 1828, **3**, 15–17. — Isis (Oken), 1848, 93–94. 1828.1

—— Ichthyologiske bidrag. Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1829–30, 5–7; 15–20. 1830.1

Reprinted in the same Society's Afhandlinger, 1832, **5**. Abstract in L'Institut, 1834, **2**, 158–159.

—— Bidrag til vor kundskab om Grönlands fiske [*Lycodes vahlii* og *Paralepis coregonoides*] Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1830–31, 18–21. — Dansk. Vid. Selsk. Afh. Kjøbenhavn, 1832, **5**, lxxiv-lxxvi. Abstract in L'Institut, 1834, **2**, 174–175. 1831.1

—— Observations pour servir à l'histoire des poissons. Ann. Sci. Nat. (*Zool.*), 1831, **22**, 168–172. — Isis (Oken), **2**, 181. 1831.2

—— Om den islandske fiskfauna. Maanedskr. for Lit., Kjøbenhavn, 1832, **7**, pt. 3. 1832.1

—— Notes sur l'ichthyologie du Grœnland. L'Institut, 1834, **2**, 160–161; 174–175. 1834.1

—— Sur deux individus du *Pagellus centrodontus*, pris sur les côtes de Séelande. L'Institut, 1834, **2**, 193. 1834.2

—— Sur quelques poissons qui visitent rarement les côtes de Danemarck. L'Institut, 1834, **2**, 193–194. 1834.3

—— Om Lycodes. Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1834–35, 5–6. — Dansk. Vid. Selsk. Afh. Kjøbenhavn, 1837, **6**, lxxvi. 1835.1

—— Ichthyologiske bidrag til Grönlands fauna. Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1835–36, 8–12. — Dansk. Vid. Selsk. Afh. Kjøbenhavn, 1837, **6**, cvii–cxi. Abstract in Wiegmann Arch. Naturgesch., 1837, 3. Jahrg., **1**, 263–267. 1836.1

—— Over sammentrækningen og udvidelsen af iris hos den spidssnudede aal, *Anguilla acutirostris*. Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1836–37, 8–9. 1837.1

—— Bythites, novum genus piscium. Danske Vid. Selsk. Afh., 1837, **6**, 77–78. — Isis (Oken), 1848, 135–136. 1837.2

—— Tvende nye Grönlandske fiskearter, *Lycodes vahlii*, *L. reticulatus*. Dansk. Vid. Selsk. Afh. Kjøbenhavn, 1837, **6**, lxxv–lxxvii. — Arch. Naturgesch., 1837, 3. Jahrg., 234–236. 1837.3

—— Ichthyologiske bidrag til den Grönlandiske fauna . . . indledning, indeholdende tillaeg og forandringer i den fabriciske fortegnelse paa Grönlandske hvirveldyr. Danske Vid. Selsk. Afh. Kjøbenhavn, 1838, **7**, 83–195; 221–228. 3 pls. 1838.1

—— Vaagmaeren [*Trachypterus vogmarus*] beskrevet. Danske Vid. Selsk. Afh. Kjøbenhavn, 1838, **7**, 65–82. 2 pls. — Isis (Oken), 1838, 241–247. 1838.2

—— Om nye Grönlandske fiske [*Microstomus grönlandicus, Cottus bicornis*] Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1839, 8–10. — Nat. Tidssk. (Krøyer), **3**, 225–227. 1839.1

—— Ueber neue grönländische Fische. Isis (Oken), 1841, 706. 1841.1

Reinhardt, *J. C. H.*
—— Tvende for den Grönlandske fauna nye fiskearter [*Liparis glutinosus*, *Stomias ferox*] Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1842, 82–84. — Dansk. Vid. Selsk. Afh. Kjøbenhavn, 1843, lxxvii–lxxix. 1842.1

—— Ueber zwei neue grönländische Fische. Isis (Oken), 1844, 819–820. 1844.1

Reinhardt, *Johan Theodor* [1816–1882] Nye sydamerikanske ferskvandsfiske. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1849, 29–57. Also separate; Copenhagen, 1849. 32 p. 4°. 1849.1

—— Neue südamerikanische Süsswasserfische. Froriep's Tagsber. (*Zool.*), 1850, **1**, 202–204. 1850.1

—— Om svömmeblæren hos familien Gymnotini. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1852, 135–149. — Arch. Naturgesch., 20. Jahrg., 169–184. 1852.1

—— Tvende iagttagelser af phosphorisk lysning hos en fisk [*Astronethes fieldii* Val.] og en insektlarve. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1853, 59–65. — Zeitschr. Gesam. Naturw., **5**, 208–213. 1853.1

—— Note on a luminous fish [*Astronethes fieldii*] Zoologist, 1854, **12**, 4299–4300. 1854.1

—— Notits om slaegten Pachyurus Ag. og de dertil hörende arter. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1854, 108–112. 1854.2

—— Fortegnelse over Grönlands pattedyr, fugle og fiske (In Rink, H. J. Grönland, geographisk og statistik beskrevet. Kjøbenhavn, 1857. 8°) 1857.1

Reprinted (from same types) with rest of natural history in the following work: "Naturhistoriske bidrag til en beskrivelse af Grönland," af J. Reinhardt, J. C. Schiödte, O. A. L. Mörch, C. F. Lütken, J. Lange, H. Rink . . . Kjøbenhavn, 1857. 12°.

A nominal list of 69 species, with references to original descriptions, or to the Fauna Grœnlandica of Fabricius, and with the names current among the Esquimaux. Only four of the species (Salmonidæ) are freshwater.

The same list (but without the references to authorities) was translated and published in Anton von Etzel's "Grönland geographisch und statistisch beschrieben. Aus dänischen Quellenschriften." Stuttgart, 1860.

—— *Stegophilus insidiosus*, en ny mallefisk fra Brasilien og dens levemaade. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1859, 79–97. pl. 1859.1

—— Eene nieuwe soort van siluroïde of welsachtigen visch van Brazilië en zijne levenswijze [*Stegophilus insidiosus*] uit het Deensch vertaald door J. van der Hoeven. Album Natuur, 1860, 82–96. pl. 1860.1

—— Notits om fiskeslaegten Alepisaurus Lowe. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1862, 287–288. 1862.1

—— Om mallen (*Silurus glanis*) Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1865, 276. 1865.1

—— Om piilrokken (*Trygon pastinaca*) Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1865, 276–277. 1865.2

—— Om trende, formentligt ubeskrevne fisk af characinernes eller karpelaxenes familie. Oversigt Dansk. Vid. Selsk. Forh. Kjøbenhavn, 1866, 49–68. 2 pls. 1866.1

—— Velhas-Flodens fiske. Et bidrag til Brasiliens ichthyologi. Kor. Dansk. Vidensk. Selsk. Afh. Kjøbenhavn 1875 (1880), 5. ser. **12**, no. 2. 1880.1

Reinhardt, *Johan Theodor*, **Schiødte,** *J. C.*, **Mörch,** *O. A. L.*, **Lütken,** *C. F.*, **Lange,** *J.*, & **Rink,** *H.* Naturhistoriske bidrag til en beskrivelse af Grönland. Kjøbenhavn, 1857. 172 p. 2 pls. 12°. 1857.1

Fiske, af Johan Reinhardt, p. 3–27.

Reinhardt, *Ludwig* [1866 —] Das Sehen bei den Fischen. Natur u. Haus, 1902, 10. Jahrg., 152–153. 1902.1

Reinhart, *H.* Können die Fische schlafen? Prometheus, 1911, 22. Jahrg., 820–821. fig. 1911.1

—— Vom Schlaf der Fische. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 80–81. 1912.1

—— Neues vom Schlaf der Fische. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 906–908. 1913.1

Reis, (*Frau Dr.*) *Karolina.* Contribution à la morphologie des ossicules de Weber et de la vessie natatoire chez les *Siluroides nebulosus* [Text in Polish] Bull. Intern. Acad. Sci. Cracovie, 1905, 220–229. pl. 1905.1

—— Beiträge zur Kenntnis der Gasdrüse bei den Knochenfischen [Text in Polish] Bull. Intern. Acad. Sci. Cracovie, 1906, **46** *B*, 639–701. 3 pls. 1906.1

—— Weitere Beiträge zur Kenntnis der Gasdrüse bei den Knochenfischen. Bull. Intern. Acad. Sci. Cracovie, 1906, 771–777. 1906.2

—— Beiträge zur Morphologie und Physiologie der Schwimmblase bei Knochenfischen [Text in Polish] Rozpr. Akad. Krakau, 1907. 65 p. 3 pls. 8°. 1907.1

—— Le rudiment de la vessie natatoire chez l'alevin du *Comephorus baicalensis* Pall. [Text in Polish] Kosmos, Lwów Roczn., 1909, **23**, 97–104. 2 figs. 1909.1

—— Untersuchungen über die embryonale Entwicklung der Knochenfische. Bull. Intern. Acad. Sci. Cracovie, 1910, sér. **B**, 521–554. 3 pls. 1910.1

—— Sur la formation de l'embryon chez les téléostéens [Text in Polish] (In Festschrift zur Ehre . . . Prof. Dr. Józef Nusbaum, etc., p. 249–265. pl. Lwów, 1911. 8°) 1911.1

Reis, (*Frau Dr.*) *Karolina*, & **Nusbaum,** *Józef*. Zur Histologie der Gasdrüse in der Schwimmblase der Knochenfische; zugleich ein Beitrag zur Trophospongienfrage. Anat. Anz., 1905, **27**, 129–139. 2 pls. 1905.1

—— Weitere Beiträge zur Kenntniss des Baues und der Funktion der Gasdrüse und des Ovals in der Schwimmblase der Knochenfische. Anat. Anz., 1906, **28**, 177–191. 2 pls. 1906.1

—— Erwiderung auf den von Dr. A. Jaeger in Bd. 29, No. 24 des Anatomischen Anzeigers veröffentlichten Artikel: "Zur Physiologie der Schwimmblase der Fische." Anat. Anz., 1907, **30**, 204–207. 1907.1

Reis, *Otto M.* Die Cœlacanthinen, mit besonderer Berücksichtigung der im weissen Jura Bayerns vorkommenden Gattungen. Palæontographica, 1888, **35**, 1–96. 5 pls. 1888.1

—— Zur Kenntniss des Skelets der Acanthodinen. Geogn. Jahresh., München, 1890, **3**, 1–43. figs. 1890.1

—— Anhang über Dorypterus. Geogn. Jahresh., München, 1892, **4**, 167–170. 1892.1

—— Ueber die Zurechnung der Acanthodier zu den Selachiern. Sitzber. Ges. Naturf. Freunde Berlin, 1892, 153–156. 1892.2

Discussion by O. Jaekel, *Ibid.*, p. 156–158.

—— Zur Osteologie der Cœlacanthinen. I. Teil. Rumpfskelet, Knochen des Schädels und der Wangen, Kiemenbogenskelet, Schultergürtel, Becken, Integument und innere Organe. Inaug. Dissert. Munich, 1892. 39 p. 2 pls. 8°. 1892.3

—— Zur Osteologie und Systematik der Belonorhynchiden und Tetragonolepiden. Geogn. Jahresh., München, 1892, **4**, 143–166. 1892.4

—— Ueber ein Exemplar von *Acanthodes bronni* Ag., aus der geognostischen Sammlung der "Pollichia." Jahresb. Pollichia., 1894, 331. 1894.1

—— Ueber Phosphoritisirung der Cutis der Testikel und des Rückenmarks bei fossilen Fischen. Arch. Mikr. Anat., 1894, **44**, 87–118. pl. 1894.2

—— Zur Kenntniss des Skeletts der Acanthodinen, II. Geogn. Jahresh., München, 1894, **6**, 49–66. figs. 1894.3

—— Illustrationen zur Kenntniss des Skeletts von *Acanthodes bronni* Agassiz. Abh. Senckenber. Naturf. Ges., Frankfurt-a.-M., 1895, **19**, 49–64. 6 pls. 1895.1

—— On the structure of the frontal spine and the rostrolabial cartilages of Squaloraja and Chimæra. Geol. Mag., 1895, 4. dec. **2**, 385–391. pl. 1895.2

—— Palæohistologische Beiträge zur Stammesgeschichte der Teleostier. Neues Jahrb. Mineral., 1895, **1**, 162–182. 1895.3

—— Ueber die Kopfstacheln bei *Menaspis armata* Ewald. Munich, 1895. 8°. 1895.4

—— Ueber *Acanthodes bronni* Agassiz. Morphol. Arbeiten, Jena, 1896, **6**, 143–220. 2 pls. & 3 figs. 1896.1

Reviewed by A. Tornquist in Zool. Centralbl., **1**, 649–656.

—— Das Skelett der Pleuracanthiden und ihre systematische Beziehungen. Abh. Senckenb. Naturf. Ges., Frankfurt-a.-M., 1897, **20**, 57–156. pl. 1897.1

Reviewed by A. Tornquist in Zool. Centralbl., 1898, **5**, 472–474.

—— *Cœlacanthus lunzensis* Teller. Jahrb. Geol. Reichsanst., Wien, 1900, **50**, 187–192. 2 pls. 1900.1

—— Die Binnenfauna der Fischschiefer in Transbaikalien. Recherch. Géol. Minièr. Sibérie, 1909, **29**, 1–68. 5 pls. 1909.1

Text in Russian and German.

Reis, *O. M.*

—— Ueber permische Pleuracanthidenreste. Geogn. Jahreshefte, 1914, 26. Jahrg., 155–162. pl. & fig. 1914.1

Reisenbichler, *G. F.* Dick- oder Dünn-Befruchten der Eier. Oester.-ungar. Fischerei Zeitg., 1880, 167–168. 1880.1

—— Die Kachelapparate für das Ausbrüten der Fischeier. Oesterr.-ungar. Fischerei Zeitg., 1880, 216. 1880.2

—— The thick or thin fertilization of eggs. Rept. U. S. Fish Comm. 1879 (1882), **7**, 633–635. 1882.1

Reiset, *J.*, **Millon,** *E.*, & **Regnault,** *V.* *See* **Regnault, Reiset, & Millon.**

Reisinger, *János* [1784–1852] Specimen ichthyologiæ sistens pisces aquarum dulcium Hungariæ. Budæ, 1830. 8°. 1830.1

Reisinger, *Ludwig.* Die zentrale Lokalisation des Gleichgewichtssinnes der Fische. Biol. Centralbl. 1915, **35**, 472–475. 1915.1

Zentrum der groben Gleichgewichtserhaltung im Mesencephalon. Cerebellum das Organ des feineren Statotonus.

Reisowa, *Karolina. See* **Reis,** *(Frau Dr.) Karolina.*

Reiss, *E.* *Rivulus harti* Blgr. var. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 527–528. fig. 1912.1

Reissner, *Ernst* [1824–1878] Ueber die Schuppen von Polypterus und Lepidosteus. Arch. Anat. Physiol. (Reichert), 1859, 254–269. 1859.1

—— Ueber die Schwimmblase und den Gehörapparat einiger Siluroiden. Arch. Anat. Physiol. (Reichert), 1859, 421–438. 1859.2

—— Beiträge zur Kenntniss vom Bau des Rückenmarkes vom *Petromyzon fluviatilis* L. Arch. Anat. Physiol. (Reichert), 1860, 545–588. 1860.1

Reitmayer, *Carl August.* Die Ellritze (*Phoxinus lævis*) im Zimmeraquarium. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 433–436. fig. 1911.1

—— Etwas vom Gressling (Gründling) *Gobio fluviatilis* Flem. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 573–575. fig. 1911.2

—— Etwas von der Groppe (*Cottus gobio* L.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 558–560. fig. 1911.3

—— Der ungarische Hundsfisch (*Umbra krameri* Fitz.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 351–353. fig. 1911.4

—— Der Flussbarsch (*Perca fluviatilis* L.) Einige Winke bezüglich seiner Haltung im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 650–652. fig. 1912.1

—— Unser Bitterling. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 259–261. fig. 1912.2

—— Rotauge und Rotfeder. Einige Bermerkungen zur leichteren Unterscheidung derselben. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 161–162. fig. 1913.1

—— Zucht und Pflege des Stichlings. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 339–340. 2 figs. 1913.2

—— Einige Bemerkungen zur Pflege des eingerichteten Aquariums. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 78–79. 1914.1

—— Einiges über unsere Karausche. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 452–454. 2 figs. 1914.2

—— Einige Bemerkungen über den Brachsen (*Abramis brama* L.) in der Gefangenschaft. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 76–77. fig. 1915.1

—— Einige Bemerkungen über den Kaulbarsch (*Acerina cernua* L.) und seine Haltung im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 369–370. fig. 1915.2

—— Einige Bemerkungen über die Schmerle (*Cobitis barbatula* L.) Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 598–599. fig. 1915.3

—— Der Steingressling (*Gobio uranoscopus* Agass.) Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 257–258. 2 figs. 1915.4

—— *Xiphophorus helleri* Heckel. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 147–149. fig. 1915.5

—— Das Stichlingsnest. Eine Antwort an viele Fragesteller. Blätt. Aquar.-Terrar. Kunde, 1916, 27. Jahrg., 65–70. 3 figs. 1916.1

—— Zur Zucht des *Danio malabaricus.* Jerdon. Blätt. Aquar.-Terrar. Kunde, 1916, 27. Jahrg., 17–19. fig. 1916.2

Danio albolineatus Blyth, p. 33–35. 2 figs.

Reitsma, *A. J.* Hoe men de haaijen op het eiland Aitutaki vangt. Album Natuur, 1868, 254–255. 1868.1

Reitter, *Eduard.* Die Nahrung der Karpfen. Wiener Landw. Zeitg., 1880, no. 26, 210–211. — Oesterr.-ungar. Fischerei Zeitg., 1880, 229–230; 238–239. 1880.1

Reitz, *A.* Lebendes Fischfutter. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 343–345; 356–358; 371–372; 379–380. fig. 1906.1

—— Der Scheibenbarsch (*Mesogonistius chætodon*), seine Zucht und Pflege im Zimmeraquarium. Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 664–665. 1907.1

—— *Callichthys punctatus* Bloch. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 361–362; 375–377. 1910.1

—— *Polyacanthus cupanus* var. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 181–183. fig. 1910.2

—— *Barbus conchonius* Ham. & Buch. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 375–377. fig. 1911.1

—— *Cichlasoma facetum* Steind. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 433–436; 448–449. fig. 1911.2

—— Ein neuer Danio. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 361–363. fig. 1911.3

Reitzenstein, —— *von.* Untersuchungen über die Lebensfähigkeit der mit dem Grundschleppnetz gefangenen Schollen in den Jahren 1906–1907. 4.–5. Jahresber. Beteil. Deutschlands Intern. Meeresforsch. Berlin, 1908, 259–288. map. 1908.1

Rekstad, *John Bernhard* [1852 —] Iagttagelser fra terrasser og strandlinjer i det vestlige og nordlige Norge. Bergens Mus. Aarbog, 1906, no. 1, 1–48. map & 19 figs. 1906.1

Remak, *Robert.* Vermischte anatomische Beobachtungen. Neue Notizen (Froriep), 1837, **3**, 150–154. 1837.1

v. Ueber den Nervus sympathicus der Haifische.

—— Bemerkungen über die äusseren Athemmuskeln der Fische. Arch. Anat. Physiol. (Müller), 1843, 190–196. 1843.1

—— Untersuchungen über die Entwickelung der Vertebraten. Berlin, 1855. 1855.1

An important memoir treating of the development of gill arches in fishes as compared with other vertebrates.

—— Ueber die Enden der Nerven im elektrischen Organ der Zitterrochen. Arch. Anat. Physiol. (Müller), 1856, 467–472. 1856.1

Rembold, *Robert.* Brief über den Süsswasserschleimfisch (*Blennius vulgaris*) Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 521–523. fig. 1909.1

Remes, *Mauric.* Fischreste des Stramberger Tithon. Bull. Intern. Acad. Sci. Prague, 1897, **4**, no. 1, 6–7. pl. 1897.1

Remondino, *C.* La piscicoltura in provincia di Cuneo. Ann. Accad. Agric. Torino, 1915, **57**, 31–34. 1915.1

Remy, *Charles.* Sur les poissons toxiques du Japon. C. R. Mém. Soc. Biol. Paris, 1883, 7. ser. **5**, 1–28; 263–265. 1883.1

Renard, *Edouard.* La pêche et la pisciculture dans l'extrême Orient. Bull. Soc. Acclim. Paris, 1875, 3. ser. **2**, 281–299. 1875.1

—— La pisciculture en Chine et au Japon. Explorateur Géograph. Commerc., 1875, no. 10, 227–230. 1875.2

Rénard, *Léon.* L'exposition maritime internationale du Hâvre. Rev. Moderne, 1868, 760–765. 1868.1

Renauld, *L. B.*, pseudonym for **Desloges,** *Louis C. A.*

Renault, *J.*, & **Duchamp,** *G.* Sur l'organe appelé corde dorsale chez l'*Amphioxus lanceolatus*. C. R. Acad. Sci. Paris, 1878, **86**, 898–900. Abstracts in Rev. Scient., 1878, 1003. — Ann. Mag. Nat. Hist., 1878, 5. ser. **1**, 492–493. 1878.1

Renaut, *J.* L'assise kérodontogène et la bande muqueuse ectodermique des dents cornées des cyclostomes. Introduction à l'étude analytique et à l'histogénèse des formations cornées persistantes. C. R. 13. Congr. Intern. Med. Paris (*Histol. Embr.*), 1900, 64–78. 1900.1

—— Histologie et cytologie des cellules osseuses. Développement et caractères généraux des fibres osseuses. C. R. Assoc. Anat. Nancy, 1902, **4**, 216–229. 5 figs. 1902.1

Renaut, *J.*, & **Dubreuil,** *G.* Sur la cloison, ou strie sarcoplasmique ordonnatrice transversale de la substance contractile des muscles striés. C. R. Mém. Soc. Biol. Paris, 1905, **57**, pt. 2, 189–191. 1905.1

Ammocœtes branchialis.

Renaut, *J.*, & **Policard,** *A.* Etude histologique et cytologique sommaire de l'organe de l'*Ammocœtes branchialis*, improprement nommé corps thyroïde. C. R. Assoc. Anat., 1905, **7**, 59–68. 2 figs. 1905.1

Rendall, *P.* Flight of the flying-fish. Zoologist, 1912, 39. 1912.1

Rendle, *Alfred Barton* [1865 —] Memorials of Linnæus. Collection of portraits, manuscripts, specimens and books exhibited to commemorate the bicentenary of his birth. London, 1907. 2 pls. 8°. 1907.1

Renier, *Stefano Andrea* [1759–1830] Esame e giudizio ricercato sulla questione di che specie di squali sia un ittiolito delle cave bolchesi, che esiste nella publica biblioteca di Vicenza. Mem. R. Ist. Padova, 1820, 43. Also separate; Padova, 1821. 4°. 1820.1

Eocene shark from monte Bolca, Italy.

—— Osservazioni posthume di zoologia adriatica, pubblicato per cura dell' Istituto Veneto da G. Meneghini. Venezia, 1847. 32 pls. fol. 1847.1

Rennie, *E. H.* President's address. Trans. Roy. Soc. South Australia, 1903, **27**, 319–329. 1903.1

Contains remarks on fishes.

Rennie, *John.* Occurrence of a "principal islet" in the pancreas of Teleostei. Journ. Anat. Physiol., London, 1903, 2. ser. **17**, 375–378. fig. 1903.1

—— The epithelial islets of the pancreas in Teleostei. Quart. Journ. Micr. Sci., 1904, **48**, 379–405. 3 pls. — Rept. Brit. Assoc. Adv. Sci., 63. meet., 1903, 696. 1904.1

—— Ueber die physiologische Bedeutung der Langerhansschen Inseln in Pankreas (*Lophius piscatorius*) Zentralb. Physiol., 1905, **18**, no. 23, 729–731. 1905.1

—— Accessory fins in *Raia batis.* Anat. Anz., 1906, **28**, 428–431. 2 figs. 1906.1

—— On the occurrence of *Centrolophus niger* Gmelin on the Scottish coast, with a note on one or two points in its structure. Ann. Scottish Nat. Hist., 1907, 216–218. 1907.1

Rensen, *P. van.* Die Emdener Häringsfischerei. Deutsch. Economist, Berlin, 1872. — Bremer Handelsbl., 1872, nos. 1062 & 1064. 1872.1

Renvall, *Thorsten.* Suomen Retkeilyfauna. Turku, 1899. 215 p. 25 figs. 8°. 1899.1

Renwick, *John.* Fossil sharks' teeth from Algeria. Trans. Nat. Hist. Soc. Glasgow, 1897, n. s. **5**, 147. 1897.1

Répássy, *Miklós.* Süsswasserfischerei und Fischwirtschaft [Text in Hungarian] Budapest, 1909. 502 p. 2 pls. 8°. 1909.1

Repiachoff, *W.* Bemerkungen über die Keimblätter der Wirbelthiere. Zool. Anz., 1883, **6**, 148–152. 1883.1

Entwicklung der Chorda dorsalis aus dem Mesoblast bei Amphioxus.

Reste, *Bernarde de.* Histoire des pêches, des découvertes et des établissements des Hollandois dans las mers du Nord; ouvrage traduit du Hollandais . . . enrichi de notes . . . par . . . B. de Reste. 3 vols. Paris, An IX [1801] illust. 8°. 1801.1

Retterer, *Edouard.* Spécifité et transformation cellulaires. C. R. Mém. Soc. Biol. Paris, 1900, **52**, 655–659. 1900.1

Transformation of cartilage cells.

—— Des capsules osseuses. C. R. Mém. Soc. Biol. Paris, 1905, **57**, pt. 2, 366–368. 1905.1

—— Du tissu osseux des mammifères et des poissons. C. R. Assoc. Anat., 1905, **7**, 120–126. 1905.2

—— Du tissu osseux des poissons téléostéens. C. R. Mém. Soc. Biol. Paris, 1905, **57**, pt. 2, 246–248. 1905.3

Le squelette osseux du merlan et de l'alose.

—— De la structure réticulée de la cellule cartilagineuse. C. R. Mém. Soc. Biol. Paris, 1907, **63**, 782–785. 1907.1

Cartilage de raie, *Raja clavata.*

Retterer, *Edouard,* & **Lelièvre,** *August.* Musculature intestinale de la tanche (*Tinca vulgaris* Cuv.) C. R. Mém. Soc. Biol. Paris, 1909, **66**, 571–574. 1909.1

—— Structure du myocarde de quelques vertébrés inférieurs. C. R. Mém. Soc. Biol. Paris, 1909, **66**, 746–749. 1909.2

Tanche, grenouille, tortue.

Retzius, *Anders Adolf* [1796–1860] Observationes in anatomiam chondropterygiorum præcipue squali et rajæ generum. Inaug. Dissert. Lundæ, 1819. fig. 1819.1

Retzius, *Anders Johan* [1742–1821] *Tetrodon* [*Orthagoriscus*] *mola* beskrifven. Svensk. Vet. Akad. Handl., 1785, **6**, 115–121. 1785.1

—— Anmarkningar vid slägtet Myxine. Svensk. Vet. Akad. Handl., 1790, **11**, 110–114. 1790.1

—— Lampris, en ny fiskslägt beskrifven. Svensk. Vet. Akad. Handl., 1799, **20**, 91–100. 1799.1

—— Faunæ Sueciæ, pars prima [sistens mammalia, aves, amphibia et pisces] quam recognovit, emendavit et auxit A. J. Retzius, etc. Lipsiæ, 1800. pl. 8°. 1800.1

Fauna Sueciæ Caroli Linnæi Equ. inchoatæ.

—— (*præses*) Animadversiones in classem piscium Linnæanam . . . sub præsidio A. J. Retzius . . . offert L. A. Planander, etc. Lundæ, 1803. 24 p. 4°. 1803.1

—— Bidrag till åder och nerfsystemets anatomie hos *Myxine glutinosa*. Svensk. Vet. Akad. Handl., 1822, 233–250. 1822.1

—— Ytterligare bidrag till anatomien af *Myxine glutinosa*. Svensk. Vet. Akad. Handl., 1824, 408–431. figs. 1824.1

—— Beitrag zu der Anatomie des Ader- und Nervensystems der *Myxine glutinosa* L. Arch. Anat. Physiol. (Meckel), 1826, 386–404. pl. — Isis (Oken), 1825, 1003–1013. fig. 1826.1

—— Recherches sur l'anatomie de *Myxine glutinosa* L. Ann. Sci. Nat. (*Zool.*), 1828, **14**, 148–177. pl. 1828.1

—— Anatomisk undersökning öfver några delar af *Syngnathus acus* och Ophidion. Svensk. Vet. Akad. Handl., 1833, 146–159. Isis (Oken), 1833, **5**, 396. fig. 1833.1

—— Microscopiska undersökningar öfver tändernes, särdeles tandbenets struktur. Svensk. Vet. Akad. Handl., 1836, 52–140. — Arch. Anat. Physiol. (Müller), 1837, 486–566. 2 pls. — C. R. Acad. Sci. Paris, 1837, **3**, 250–251. 1836.1

—— Om magens byggand hos slägtet Silurus. Förh. Skand. Naturf., 1842, **3**, 695. — Isis (Oken), 1845, 455. 1842.1

—— Om de förmenta electriska organerna hos de icke electriska Rockorna. Oefvers. Akad. Förh., Stockholm, 1845, **2**, 177–181. — Notizen (Froriep), 53–55. 1845.1

—— Ueber die vermeintlichen elektrischen Organe bei den nicht elektrischen Rochen. Notizen (Froriep), 1848, **5**, 53–55. 1848.1

—— Om den stora fettdroppen i fiskarnes ägg. Oefvers. Akad. Förh., Stockholm, 1854, 113–117. 3 figs. 1854.1

—— Ueber den grossen Fetttropfen in den Eiern der Fische. Arch. Anat. Physiol. (Müller), 1855, 34–39. 1855.1

Retzius, *Magnus Gustaf* [1842 —] Anatomische Untersuchungen. Stockholm, 1871. 1871.1

1. Abth. Das Gehörlabyrinth der Knochenfische. 76 p. 5 pls.

—— Beiträge zur Kenntniss der inneren Schichten der Netzhaut des Auges. VII. Nord. Med. Archiv, 1871, **3**, no. 2, 89–104. 1871.2

—— Om hörselnervens ändningssätt i maculæ och cristæ acusticæ. Nord. Med. Arkiv, 1871, **3**, no. 17, 1–4. 1871.3

—— Recherches anatomiques sur l'appareil auditif des poissons osseux. Journ. Zool. (Gervais), 1875, **4**, 179–184. 5 pls. 1875.1

—— Till kännedomen om plagiostomernas nervtrådar. Nord. Med. Arkiv, 1877, **9**, no. 23, 1–4. 1877.1

—— Till kännedomen om den membranösa hörsellabyrinten hos broskfiskarna. Nord. Med. Arkiv., 1878, **10**, 1–24. pl. 1878.1

—— Zur Kenntniss von dem membranösen Gehörlabyrinth bei den Knorpelfischen. Arch. Anat. Physiol. (*Anat. Abth.*), 1878, 83–107. pl. 1878.2

—— Om epitelet i membrana olfactoria hos *Myxine glutinosa*. Nord. Med. Arkiv, 1879, **11**, no. 10, 1–8. pl. 1879.1

—— Das Riechepithel der Cyclostomen (Myxine und Petromyzon) Arch. Anat. Physiol. (*Anat. Abth.*), 1880, 9–23. pl. 1880.1

—— Untersuchungen über die Nervenzellen der cerebrospinalen Ganglien und der übrigen peripherischen Kopfganglien mit besonderer Rücksicht auf die Zellenausläufer. Arch. Anat. Physiol. (*Anat. Abth.*), 1880, 369–402. 6 pls. 1880.2

—— Zur Kenntniss des inneren Gehörorgans der Wirbelthiere. Arch. Anat. Physiol. (*Anat. Abth.*), 1880, 235–244. 1880.3

Retzius, *M. G.*

—— Einige Beiträge zur Histologie und Histochemie der Chorda dorsalis. Arch. Anat. Physiol. (*Anat. Abth.*), 1881, 89–110. 2 pls. 1881.1

—— Das Gehörorgan der Wirbelthiere. Morphologisch-histologische Studien. 2 vols. Stockholm, 1881–84. illust. 4°. 1881.2

Das Gehörorgan der Fische und Amphibien, vol. i, p. 1–150. 24 pls.

—— Das membranöse Gehörorgan von *Polypterus bichir* Geoffr. und *Calamoichthys calabaricus* J. A. Smith. Biol. Untersuch., Stockholm, 1881, **4**, 61–66. pl. 1881.3

For convenience of indexing, the Biologische Untersuchungen of Retzius are here treated as a serial publication.

—— Ueber die peripherische Endigungsweise des Gehörnerven. Biol. Untersuch., Stockholm, 1881, **3**, 50–60. pl. 1881.4

—— Ueber die Entwickelung der *Myxine glutinosa.* Biol. Fören. Förh., Stockholm, 1889, **1**, 1 Heft, 22–28. pl. 1889.1

—— Ein sogenanntes Caudalherz bei *Myxine glutinosa.* Biol. Untersuch., Stockholm, 1890, n. s. **1**, 94–96. pl. & fig. 1890.1

—— Ueber die Ganglienzellen der Cerebrospinalganglien und über subcutane Ganglienzellen bei *Myxine glutinosa.* Biol. Untersuch., Stockholm, 1890, 2. ser. **1**, 97–99. pl. & 2 figs. 1890.2

—— Ueber Zellentheilung bei *Myxine glutinosa.* Biol. Fören. Förh., Stockholm, 1890, **2**, 80–91. pl. 1890.3

—— Das hintere Ende des Rückenmarkes und sein Verhalten zur Chorda dorsalis bei *Amphioxus lanceolatus.* Verh. Biol. Ver., Stockholm, 1891. 4°. 1891.1

—— Zur Kenntnis des centralen Nervensystems von *Amphioxus lanceolatus.* Biol. Untersuch., Stockholm, 1891, n. s. **2**. 1891.2

—— Zur Kenntniss des centralen Nervensystems von *Myxine glutinosa.* Biol. Untersuch., Stockholm, 1891, n. s. **2**, 47–53. pls. *Ibid.*, **3**, 37–40. *Ibid.*, **4**, 36–41. Abstract in Journ. Roy. Micr. Soc., 1892, pt. 5, 594–595. 1891.3

—— Zur Kenntnis der Ependymzellen der Centralorgane. Verh. Biol. Ver., Stockholm, 1891, **3**. 1891.4

—— Das Caudalskelet der *Myxine glutinosa.* Biol. Fören. Förh., Stockholm, 1892, **3**, 79–84. pl. 1892.1

—— Das hintere Ende des Rückenmarks und der Chorda dorsalis bei *Petromyzon fluviatilis.* Biol. Fören. Forh., Stockholm, 1892, **4**, 36–41. figs. 1892.2

—— Die Nervenendigungen in den Endknospen resp. Nervenhügeln der Fische und Amphibien. Biol. Untersuch., Stockholm, 1892, n. s. **4**, 33–36. 1892.3

—— Die sensiblen Nervenendigungen in der Haut des Petromyzon. Biol. Untersuch., Stockholm, 1892, n. s. **3**, 37–40. pl. 1892.4

—— Ueber die sensiblen Nervenendigungen in den Epithelien bei den Wirbelthieren. Biol. Untersuch., 1892, n. s. **4**, 37–44. 5 pls. 1892.5

—— Weiteres über die Gallenkapillaren und den Drüsenbau der Leber. Biol. Untersuch., Stockholm, 1892, n. s. **4**, 67–70. 3 pls. 1892.6

—— Zur Kenntniss der motorischen Nervenendigungen. Biol. Untersuch., Stockholm, 1892, n. s. **4**, 41–52. 7 pls. 1892.7

—— Zur Kenntniss der Nervenendigungen in der Riechschleimhaut. Biol. Untersuch., Stockholm, 1892, n. s. **4**, 62–64. pl. 1892.8

—— Zur Kenntniss der Nervenendigungen in den Zähnen. Biol. Untersuch., Stockholm, 1892, n. s. **4**, 65–66. pl. & figs. 1892.9

—— Das Gehirn und das Auge von Myxine. Biol. Untersuch., Stockholm, 1893, n. s. **5**, 55–68. 3 pls. 1893.1

—— Die nervösen Elemente im Rückenmarke der Knochenfische. Biol. Untersuch., Stockholm, 1893, n. s. **5**, 27–30. pl. 1893.2

—— Studien über Ependym und Neuroglia. Biol. Untersuch., Stockholm, 1893, n. s. **5**, 9–26. 8 pls. 1893.3

—— Ueber Geschmacksknospen bei Petromyzon. Biol. Untersuch., Stockholm, 1893, n. s. **5**, 69–70. pl. 1893.4

—— Familjen Myxinidæ (In Smitt, F. A. & others. Skandinaviens fiskar, etc., pt. 2, p. 1195–1209. Stockholm & London, 1895) 1895.1

—— Ueber das hintere Ende des Rückenmarkes bei Amphioxus, Myxine und Petromyzon. Biol. Untersuch., Stockholm, 1895, n. s. **7**, 26–33. 2 pls. 1895.2

—— Ueber den Bau des Rückenmarkes der Selachier. Biol. Untersuch., Stockholm, 1895, n. s. **7**, 34–39. 3 pls. 1895.3

—— Ueber den Bau des sogenannte Parietalauges von Ammocœtes. Biol. Untersuch., Stockholm, 1895, n. s. **7**, 22–25. pl. & figs. 1895.4

—— Ueber die Hypophysis von Myxine. Biol. Untersuch., Stockholm, 1895, n. s. **7**, 19–21. pl. & figs. 1895.5

—— Zur Kenntniss der Retina der Selachier (In Zoologiska Studier, Festskrift, Wilhelm Lilljeborg tillegnad på hans åttionde födelsedag af svenska zoologer, p. 19–28. Upsala, 1896. 5 figs.) 1896.1

—— Die Methylenblaufärbung bei dem lebenden Amphioxus. Biol. Untersuch., Stockholm, 1898, n. s. **8**, 118–122. 1898.1

—— Ueber die Endigung der Nerven im elektrischen Organ von *Raja clavata* and *Raja radiata*. Biol. Untersuch., Stockholm, 1898, n. s. **8**, 83–93. 3 pls. 1898.2

—— Zur Kenntniss der Lorenzi'schen Ampullen der Selachier. Biol. Untersuch., Stockholm, 1898, n. s. **8**, 75–82. pl. 1898.3

—— Ueber einen Spiralfaserapparat am Kopfe der Spermien der Selachier. Biol. Untersuch., Stockholm, 1902, n. s. **10**, 61–64. pl. 1902.1

—— Die Membrana limitans interna der Netzhaut des Auges. Biol. Untersuch., Stockholm, 1904, n. s. **11**, 82–88. pl. 1904.1

—— Zur Kenntnis der limitans externa der nervösen Centralorgane. Biol. Untersuch., Stockholm, 1904, n. s. **11**, 77–81. pl. 1904.2

—— Ueber den Bau der Haut von *Myxine glutinosa*. Biol. Untersuch., Stockholm, 1905, n. s. **12**, 65–74. 2 pls. 1905.1

—— Zur Kenntnis der Spermien der Leptocardier, Teleostier und Ganoiden. Biol. Untersuch., Stockholm, 1905, n. s. **12**, 103–115. pl. 1905.2

—— Zur Kenntnis der Spermien der Elasmobranchier. Biol. Untersuch., Stockholm, 1909, n. s. **14**, 79–88. 2 pls. 1909.1

—— Ueber die sogenannten Frommann'schen Querlinien der Axencylinder der Nervenfasern. Biol. Untersuch., Stockholm, 1910, n. s. **15**, 87–90. pl. & figs. 1910.1

—— Ueber das Verhalten der Nervenzellen zur Biondifärbung. Biol. Untersuch., Stockholm, 1911, n. s. **16**, 62–64. pl. & 4 figs. 1911.1

—— Untersuchungen an Eiern von verschiedenen Wirbellosen- und Wirbeltieren. B. Die Eier von *Gobius niger* L. Biol. Untersuch., Stockholm, 1911, n. s. **16**, 48–55. 3 pls. 1911.2

—— Zur Frage von der Struktur des Protoplasmas der Nervenzellen. Biol. Untersuch., Stockholm, 1911, n. s. **16**, 73–78. pl. & 6 figs. 1911.3

—— Zur Kenntnis der Hüllen und besonders des Follikelepithels an den Eiern der Wirbeltiere. I. Bei den Fischen. Biol. Untersuch., Stockholm, 1912, n. s. **17**, 1–29. 5 pls. 1912.1

Retzius, *Magnus Gustaf,* & **Key,** *Axel. See* **Key** & **Retzius.**

Reuss, *Adam. Dentex gibbiceps,* sp. nov. Isis (Oken), 1832, 626–628. figs. 1832.1

Reuss, *August Emanuel von* [1811–1873] Geognostische Skizzen aus Böhmen. 2 vols. Prag, 1840–44. illust. 8°. 1844.1

Volume ii bears the subsidiary title as follows: Die Kreidegebilde des westlichen Böhmens, ein monographischer Versuch. Nebst Bemerkungen über die Braunkohlenlager jenseits der Elbe und eine Uebersicht der fossilen Fischreste Böhmens. vi, 304 p. 3 pls. 1844.

—— Neue Fischreste aus dem böhmischen Pläner. Denkschr. Akad. Wiss. Wien, 1857, **13**, 33–42. 1857.1

—— Die fossile Fauna der Salzablagerung von Wieliczka. Verh. Geol. Reichsanst., Wien, 1866, **16**, 136–137. — Sitzber. Akad. Wiss. Wien, 1866, **55**, 1. Abth., 17–182. 8 pls. 1866.1

Fische, p. 176–177.

Reuss, *August Emanuel von,* & **Meyer,** *Hermann von.* Die tertiären Süsswassergebilde des nördlichen Böhmen's und ihre fossilen Thierreste. Palæontographica, 1849–52, **2**, 1–74. pl. & figs. 1851.1

Pisces, von H. von Meyer, p. 45–66.

Reuss, *Christian Friedrich von* [1745–1813] Von der Weise wie aus dem Fische Tkotspiggs (*Gasterosteus aculeatus*) in Schweden Oel bereitet wird. Beschäft. Ges. Naturf. Freunde Berlin, 1778, **3**, 171. 1778.1

Reuss, *F. A.* De libris Physicis S. Hildegardis commentatio historico-medico. Wirceburgi, 1835. 1835.1

See also **Geysenheiner,** *L.* Ueber die Physica der heiligen Hildegarde von Bingen, etc. Sitzber. Naturh. Ver. Preuss. Rheinl. u. Westfalens, 1911, *E*, 49–72.—**Wasmann,** *E.* Hildegarde von Bingen als älteste deutsche Naturforscherin. Biol. Centralbl., 1913, **33**, 278–288.

Reuss, *Hans.* Fischfarbung und natürliche Zuchtwahl [Bericht über eine Arbeit von M. Popoff] Allgem. Fischerei Zeitg., 1906, 31. Jahrg., 411–412. 1906.1

—— Die Fischfeinde aus der niederen Tierwelt. Allgem. Fischerei Zeitg., 1906, 31. Jahrg., 261–267; 288–291; 329–334; 382–387; 408–411; 446–448; 491–493; 514–516. *Ibid.*, 1907, 32. Jahrg., 2–4; 98–100. 1906.2

—— Neue Myxoboliden von Süsswasserfischen. Bull. Acad. Sci., St. Petersb., 1907, 5. sér. **25**, 199–205. pl. 1907.1

—— Die natürliche Nahrung der Fische. Allgem. Fischerei Zeitg., 1907, 32. Jahrg., 361–364; 447–450; *Ibid.*, 1908, 33. Jahrg., 25–29; 120–122; 141–143; 256–260; 346–350; 386–388; 411–414. 1907.2

—— Die Bedeutung des Kalkes für das Wachstum des Karpfens. Allgem. Fischerei Zeitg., 1908, 33. Jahrg., 2–6. 1908.1

—— Untersuchungen über die chemische Zusammensetzung des Fischkörpers unter dem Einfluss seines Wachstums und des Wassers. Bericht. Biol. Versuchstat. München, 1908, **1**, 185–220. 1908.2

—— Ueber die Schädlichkeit der Kohlensäure für Fische. Allgem. Fischerei Zeitg., 1909, 34. Jahrg., 221–225; 246–251. 1909.1

—— Die Wirkung der Kohlensäure auf Fische. Ber. Bayr. Biol. Versuchstat. München, 1909, **2**, 89–142. 10 figs. 1909.2

—— Die Wirkung der Kohlensäure auf die Atmung der niederen Wirbeltiere, insbesondere der Fische. Erste Abhandlung. Ergebnisse der Versuche an der Regenbogenforelle. Zeitschr. Biol. München, 1910, **53**, 555–587. 7 figs. 1910.1

—— Ueber den Schlaf bei Fischen. Allgem. Fischerei Zeitg., 1911, **26**, 174–176. 1911.1

—— Ueber die Wirkung einiger Narkotika auf Fische. Deutsch. Fischerei, 1911, 49–57. 1911.2

Reuss, *Hans,* & **Weinland,** *Ernst.* Ueber die chemische Zusammensetzung der Aalbrut unter verschiedenen Bedingungen. Zeitschr. Biol. München, 1912, **59**, 283–296. 1912.1

Reuss, *Leopold.* Fauna des Unter-Donau-Kreises, oder Gemeinnützige Naturgeschichte der im Unter-Donau-Kreise vorkommenden wilden und zahmen Thieren. Passau, 1832. 8°. 1832.1

Fische aus der Donau, p. 441.

Reuter, *Fritz.* Ueber die Besetzung natürlicher Binnengewässer mit Fischen und Krebsen. Zeitschr. Forst- Jagdwesen, 1897, 29. Jahrg., 381–402. fig. 1897.1

—— Die Atmung der Fische. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 617–622. 9 figs. 1909.1

—— *Dormitator maculatus* (Bloch) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 605–607. fig. 1911.1

—— Neues von *Betta splendens* Regan. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 65–67. pl. 1911.2

—— *Belonesox belizanus.* Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 81–82. 1912.1

—— *Trichogaster fasciatus* Bloch und Schneider. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 565–567. pl. 1912.2

—— Der wissenschaftliche Name unseres Maulbrüters [*Haplochromis strigigena*] Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 678–679. 1912.3

—— Die wissenschaftlichen Namen unserer Fische. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 483–485. 1912.4

—— Der "Eidechsenkopffisch" (*Eleotris ? pisonis*) eine neue Grundelart aus Nordamerika. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 49–52. fig. 1913.1

—— *Monocirrus polyacanthus* Heckel. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 617–619. 2 figs. 1913.2

—— *Nandus marmoratus* Cuv. & Val. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 417–419. fig. 1913.3

—— *Cichlosoma festivum* Heckel und seine Pflege und Zucht, unter besonderer Berücksichtigung der Geschlechtsunterschiede, nach Aufzeichnungen des Herrn Georg Bausch. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 6–11. 4 figs. 1914.1

—— Pieter Bleeker. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 313–314. portr. 1914.2

—— *Prochilodus insignis* Schomburgk. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 257–259. 3 figs. 1914.3

—— Zwei seltene Grundelarten. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 273–276. 2 figs. 1914.4
Eleotris pisonis und *E. porocephalus.*

—— Die Characiniden. I–II. Blätt. Aquar.-Terrar. Kunde, 1916, 27. Jahrg., 53–56; 81–85. 11 figs. 1916.1

Reuter, *F.*, & **Wolterstorff,** *W.* Die fremdländischen Zierfische in Wort und Bild. Atlas sämtlicher bei uns eingeführten exotischen Zierfische. Stuttgart, 1912. 8°. 1912.1

Reuter, *Jonatan.* Idmete. Sporten, 1891, 3. ser. **1**, 293–294. 1891.1

Reuter, *Odert Ossian.* Hafsfisket på sveriges västkust samt nagra ord om Finlands saltsjöfiskar. Skrift. Sv. Folksk. Vänn., 1889, **19.** 45 p. 1889.1

—— Skildringar från Västra Nyland. Skrift. Sv. Folksk. Vänn., 1891, **24**, 76. 1891.1

—— Om de ekonomiska förhållandena i skärgården. Fiskeritidskr. Finl., 1892, **1**, 112–117. 1892.1

—— En modärn fiskerihushållning i små sjöar. Fiskeritidskr. Finl., 1894, **3**, 171–175; 187–193. 1894.1

—— År den klagan befogad eller icke, som i skärgården förspörjes beträffande strömmingsfiskets försämring? Fiskeritidskr. Finl., 1896, **5**, 168–172. 1896.1

—— Idmete i skärgården. Tidskr. Jägare & Fisk., 1896, **4**, 155–158. 1896.2

—— Några mindre beaktade saltsjöfiskar. Helsingfors, 1899. 29 p. 16°. 1899.1

—— Berättelse öfver en af litteratören Ossian Reuter med understöd af fiskeriföreningen i Finland i början af September 1900 företagen resa till Estländska kusten för studium af där idkadt fiske efter hvassbuk. Fiskeritidskr. Finl., 1900, **9**, 169–171. 1900.1

—— Några iakttagelser rörande forsken [Einige Beobachtungen über *Gadus morrhua*] Fiskeritidskr. Finl., 1904, **13**, 204–207. 1904.1

Reuter, *Odo Morannal* [1850—] Notiser om trå finska fisk-arter. Meddel. Soc. Fauna Flora Fenn., 1876, Häft 1, 129–130. 1876.1

—— Rudabborre från Ruovesi. Meddel. Soc. Fauna Flora Fenn., 1881, **6**, 231. 1881.1

—— La Finlande et les finlandais. Itinéraire historique et descriptif. Helsingfors, 1889. 207 p. 8°. 1889.1
Contains observations on Finnish fisheries.

—— Nordiska sugfisken (*Liparis lineatus* Lep.) funnen i Nylands skärgard. Meddel. Soc. Fauna Flora Fenn., 1892, **17**, 168–172. 1892.1

—— Finlands fiskar och fisket i Finland. Skrift. Sv. Folksk. Vänn., 1893, **28**, 115 p. 4 pls. & 21 figs. 1893.1

—— Hafvets illuminering. Minnesbl. utg. af Axel Lille, Helsingfors, 1900, 83–94. 8 figs. 8°. 1900.1

Reuter, *Odo Morannal,* & **Luther,** *Alexander* (*editors*) Bibliotheca zoologica Fenniæ. Herausgegeben von Zoologen Finlands. Acta Soc. Fauna Flora Fenn., 1909, **24**, no. 1, 1–361. 1909.1
An extremely important authors' list of titles for fish and fishing of Finland. *See also* Luther, A. Uebersicht der hydrozoologischen Literatur in Finland seit 1901. Intern. Rev. Hydrobiol. & Hydrogr., 1910–11, **3**, 239–251.

Reuter, *Odo Morannal,* & **Mela,** *Aukusti Johana.* Finlands fiskar, målade efter naturen. The fishes of Finland, drawn and colored from life by Gösta Sundman, with text by Dr. O. M. Reuter and A. J. Mela. 12 pts. Helsingfors, 1883–93. 41 col. pls. fol. 1883.1
Text in Danish and English by O. M. Reuter and A. J. Mela.

Reuter, *Odo Morannal,* & **Sundman,** *Gösta. See* **Sundman** & **Reuter.**

Reuter, *Odo Morannal,* & **others.** Festschrift Herrn Prof. Dr. J. A. Palmén

Reuter, *O. M.* zu seinem 60. Geburtstage . . . gewidmet von Schülern und Kollegen. 2 vols. illust. Helsingfors, 1905–07. 8°. 1905.1

See references under the names of Kolster, R., Luther, A., and Schneider, G., in the present Bibliography.

Reuvens, *C. L.* On *Engraulis japonicus* Schlegel. Notes Leyden Mus., 1891, **13**, 176. 1891.1

—— Fishes from the Brantas river, Java. Notes Leyden Mus., 1895, **16**, 173–178. 1895.1

—— Fresh and brackish water fishes from Sumba, Flores, Groot-Bastaard, Timor, Samaoe and Rotti. Notes Leyden Mus., 1895, **16**, 145–156. 1895.2

—— A new Novacula species from the Balabalongan or Little Paternoster isles. Notes Leyden Mus., 1895, **16**, 131–132. 1895.3

—— Remarks on the genus Orthagoriscus. Notes Leyden Mus., 1895, **16**, 128–132. pl. 1895.4

—— On *Hemichromis fasciatus* Peters. Notes Leyden Mus., 1896, **17**, 111–116. 1896.1

—— On *Anomalops palpebratus* (Bodd.) Notes Leyden Mus., 1897, **19**, 127–128. 1897.1

—— *Orthagoriscus nasus* Ranz., on the Dutch coast. Notes Leyden Mus., 1897, **18**, 209–212. pl. 1897.2

Revay, *Simon.* Description de l'établissement ichthyogénique à Kisz-Selmecz (Stavnicska) en Hongrie. Budapest, 1878. 4 p. 8°. 1878.1

Révoil, *Bénédict H.* Pêches dans L'Amerique du Nord. Paris, 1863. 320 p. 12°. 1863.1

The same. 2. ed. Tours, 1869. 12°. 1869.1

Revoil, *Christian.* L'élevage du cyprin doré à Oldenbourg. Bull. Soc. Centr. Aquicult. Pêche, 1891, **3**, 5–10. 1891.1

—— La nourriture de la truite. Bull. Soc. Centr. Aquicult. Pêche, 1892, **4**, 86. 1892.1

Rex, *Hugo.* Beiträge zur Morphologie der Hirnvenen der Elasmobranchier. Morph. Jahrb., 1891, **17**, 417–466. 3 pls. 1891.1

Rexroth, —— Von Maine [Salmoniden-Zucht] Bayer. Fischerei Zeitg., 1879, 4. Jahrg., 18–19. 1879.1

Reynolds, *Sidney Hugh.* The vertebrate skeleton. Cambridge, 1897. 559 p. figs. 8°. 1897.1

Class I. Pisces, p. 60–132.

—— Fish teeth and spines from the Carboniferous limestone of the Bristol district. Proc. Bristol Nat. Soc., 1908, 4. ser. **2**, 41–43. 1908.1

—— The vertebrate skeleton. 2. edition. Cambridge, 1913. xvi, 535 p. 144 figs. 8°. 1913.1

Fishes, p. 1–135. Reviewed in Nature, **56**, 245–246.

Reynolds, *Sidney Hugh,* & **Vaughan,** *Arthur.* The Rhætic beds of the south Wales direct line. Quart. Journ. Geol. Soc., 1904, **60**, 194–213. pl. 1904.1

Pisces: Elasmobranchii, Dipnoi, Teleostomi, p. 209–210.

Reynolds, *Stephen.* Alongshore, where man and the sea face one another. New York, 1911. 1911.1

Reynoso, *Alvaro.* Note pour servir à l'histoire de la pisciculture. Bull. Soc. Acclim. Paris, 1856, **3**, 30–32. 1856.1

Rey-Pailhade, *J. de.* Le philothion dans l'alimentation par les poissons. Bull. Gén. Thérap., 1912, **164**, 699–701. 1912.1

Rhead, *Louis* (*editor*) The speckled brook trout (*Salvelinus fontinalis*) By various experts with rod and reel. Edited and illustrated by Louis Rhead, with an introduction by Charles Hallock. New York, 1902. xv, 184 p. illust. 8°. 1902.1

—— (*editor*) The basses, fresh water and marine. By William C. Harris and Tarleton H. Bean. Edited and illustrated by Louis Rhead. New York, 1905. 1905.1

—— The book of fish and fishing, etc. New York, 1908. 306 p. 8°. 1908.1

Rhees, *W. J.* Catalogue of publications of the Smithsonian Institution (1846–1882), with an alphabetical index of authors. Smithson. Misc. Coll., 1882, **27**, no. 4. 1882.1

—— List of publications of the Smithsonian Institution (1846–1903) Smithson. Misc. Coll., 1903, **44**, no. 1376. 1903.1

Rhein, —— Auszug aus einer Mittheilung des Herrn Teichmeisters . . . zu Fischhof bei Cassel, über dessen jüngste Versuche betreffs der künstlichen Züchtung, etc., von Forellen. Landw. Anz. Kurhessen, 1867, 13. Jahrg., 89–91. 1867.1

Rheinhold, *Robert.* Einige Beobachtungen hinsichtlich des gemeinen Schleimfisches (*Blennius vulgaris* Pollini) Blätt. Aquar.-Terrar. Kunde, 1906, 17. Jahrg., 203–205; 252. 1906.1

Rhode, *E.* Muskel und Nerv bei Mermis und Amphioxus. Sitzber. Akad. Wiss. Berlin, 1892, 659–664. 1892.1

Rhumbler, *L.* Versuch zu einer mechanischen Erklärung der indirecten Kern und Zellteilung. I. Die Cytokinese. Arch. Entw.-Mech., Leipzig, 1896, **3**, 527–623. pl. & fig. 1896.1

Ribeiro, *Alipio de Miranda.* Oito especies de peixes do rio Pomba. Bol. Soc. Nac. Agric. Rio de Janeiro, 1902, 8°. 1902.1

—— A collecção de peixes de Museu Nacional do Rio de Janeiro, etc. Arch. Mus. Nac. Rio de Janeiro, 1903, **12**, 67–110. 1903.1

—— Pescas do "Annie." Bol. Soc. Nac. Agric. Rio de Janeiro, 1904. 53 p. 1904.1

—— Genus Megalobrycon Gthr., seu enumeratio systematica hujus generis Characinidarum specierum. Arch. Mus. Nac. Rio de Janeiro, 1905, **13**, 147–154. pl. 1905.1

—— Vertebrados do Itatiaya . . . Resultados de excursões do Sr. Carlos Moreira, etc. (Peixes) Arch. Mus. Nac. Rio de Janeiro, 1906, **13**, 163–170. 1906.1

—— Fauna braziliense. Peixes. Tomo i. Arch. Mus. Nac. Rio de Janeiro, 1907, **14**, 25–128. pl. & 42 figs. 1907.1

i. Noções geraes de morphologia e physiologia.
ii. Taxonomia.
iii. Algumas indicações bibliographicas e indice.

—— Fauna braziliense. Peixes. Tomo ii. Arch. Mus. Nac. Rio de Janeiro, 1907, **14**, 129–212. 19 pls. 1907.2

i. Resenha historica.
ii. Desmobranchios.
iii. Bibliographia e indice.
Part ii includes descriptions of 49 species of sharks and rays.

—— Peixes do Iporanga — S. Paulo; resultados de excursoes do Sr. Ricardo Krone, membro correspondente do Museu Nacional do Rio de Janeiro. Bol. Soc. Nac. Agric. Rio de Janeiro, 1907, **11**, 185–190. 2 figs. 1907.3

—— Uma novidade ichthyologica. Kosmos, Rio de Janeiro, 1907, **4**, no. 1, 21–22. 1907.4

—— On fishes from the Iporanga river, S. Paulo, Brazil. Ark. Zool. Svensk. Vetensk. Akad., Stockholm, 1908, **4**, no. 19, 1–5. pl. 1908.1

—— Peixes, da Ribeira, resultados de excursão do Sr. Ricardo Krone, membro correspondente do Museu nacional do Rio de Janeiro. Kosmos, Rio de Janeiro, 1908, **5**, 1–5. 7 figs. 1908.2

—— Fauna brasiliense. Os peixes. Tomo iii. Arch. Mus. Nac. Rio de Janeiro, 1909, **15**, 167–186. pl. 1909.1

Eleutherobranchios spirophoros. Lepidosiren paradoxa, com bibliographia.

—— Sobre alguns peixes novos para a fauna Marinha do Brasil. Bol. Minister. Agricult., [1910?] 15–17. pls. 1910.1

—— Fauna brasiliense. Peixes. Tomo iv. (A) Eleutherobranchios Aspirophoros. Arch. Mus. Nac. Rio de Janeiro, 1911, **16**, 1–504. 54 pls. & 144 figs. 1911.1

i. Resenha historica.
ii. Eleutherobranchios (Aspirophoros).
iii. Bibliographia e indice.
The systematic part contains description of 324 species of physostomous teleosts.

—— Loricariidæ, Callichthyidæ, Doradidæ, e Trichomycteridæ (In Commissão de Linhas Telegraphicas Estrategicas de Matto-Grosso ao Amazonas, no. 5, 1–31. pl. Rio de Janeiro, 1912) 1912.1

—— Fauna brasiliense. Peixes. Tomo v. Eleutherobranchios aspirophoras (Physoclisti) Arch. Mus. Nac. Rio de Janeiro, 1915, **17**, 1–[c. 600] pls. & figs. 1915.1

This section forms a bulky volume which is without continuous pagination; the plates are unnumbered, and there is no index. Numerous genera and species are considered, belonging to 20 orders of teleosts.

Ribeiro, *Alipio de Miranda,* & **Schreiner,** *Carlos. See* **Schreiner** & **Ribeiro.**

Riccardi, *P.* Studii intorno alla pesca presso alcune razze umane. Descriptioni dei armi e utensili. Firenze, 1879. 3 pls. 8°. 1879.1

Ricci, *Nicola.* Intorno alla speciale forma e struttura dello stomaco di alcuni pesci. Rendic. Accad. Sci. Napoli, 1875, **14**, 123–128. 1875.1

Ricci, *Omero.* Sulle modificazioni della retina all' oscuro ed alla luce. Rivist. Ital. Sci. Nat., 1901, 21. anno, 78–83; 103–106; 124–128; 152–153. *Ibid.*, 1904, 24. anno, 124–128. 1901.1

—— Ricerche sulle metamorfosi dei murenoidi [Priorità del Grassi] Atti Soc. Natural. Modena, 1902, 4. ser. **4**, 11–35. 1902.1

Ricci, *Procaccini.* Osservazioni sulle gessaje del territorio sinigagliese, su i filitti, gl' ittiolitti ed altri oggetti contenute nelle medesime. Roma, 1828. 5 pls. 8°. Abstract in Bull. Sci. Nat. (Férussac), **25**, 14. 1828.1

Rice, *Henry J.* The *Amphioxus lanceolatus* off Old Point Comfort. Forest & Stream, 1878, **10**, 503. 1878.1

—— Notes upon the development of the shad, *Alosa sapidissima.* Rept. Maryland Fish Comm., 1878. 1878.2

—— Observations upon the hatching, variation and development of the Raritan river smelt, *Osmerus eperlanus.* Rept. Maryland Fish Comm., 1878. 1878.3

—— Observations sur les mœurs, la structure et le développement de l'*Amphioxus lanceolatus.* Journ. Micrograph., 1880. 4. année, 64–72; 122–131; 181–187; 229–235. 2 pls. — Amer. Naturalist, 1880, **14**, 1–19; 73–95. figs. 1880.1

—— Experiments upon retarding the development of the eggs of the shad, made in 1879, at the United States shad-hatching station at Havre de Grace, Md. Rept. U. S. Fish Comm. 1881 (1884), **9**, 787–794. 1884.1

—— Salt as an agent for the destruction of the fish fungus. Trans. Amer. Fisheries Soc. 1884 (1885), 15–21. 1885.1

Rice, *L. M.* Safeguarding the salmon. Trans. Pacific Fisheries Soc. 1914 (1915), 79–80. 1915.1

Rich, *Shebnah.* The mackerel fishery of North America. Its perils and its rescue. Boston, 1879. 40 p. 8°. 1879.1

—— Mackerel, their history, statistics and prospects. Chicago Field, 1879, **11**, 179. 1879.2

Richard, *Jules* [1863 —] Sur les gaz de la vessie natatoire des poissons. C. R. Acad. Sci. Paris, 1895, **120**, 745–747. 1895.1

—— Sur les functions de la ligne latérale chez le cyprin doré. C. R. Mém. Soc. Biol. Paris, 1896, 10. ser. **3**, 131–133. Reviews in Le Pêcheur, 2. ser. **1**, 33. — Bull. Soc. Centr. Aquicult. Pêche, **8**, 69–71. — Etangs & Rivières, 9. année, 59–61. — Zool. Centralbl., 4. Jahrg., 38. 1896.1

—— Sur les gaz de la vessie natatoire des poissons et des physalies. Bull. Mus. Hist. Nat. Paris, 1896, **2**, 41–43. 1896.2

—— Campagne scientifique du yacht "Princesse Alice" en 1904. Observation sur la faune bathypélagique, etc. Bull. Mus. Oceanogr. Monaco, 1905, no. 41, 1–30. 1905.1

—— Monstruosités chez des poissons marins. Nature, Paris, 1912, **40**, pt. 1, 321–322. 6 figs. 1912.1

Richard, *Jules,* & **Schlœsing** (*junior*), *Th. See* **Schlœsing & Richard.**

Richards, *Benjamin W.* Origin of salmon in the Delaware. Forest & Stream, 1878, **10**, 462. 1878.1

Richardson, *Henry.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 464. 1879.1

Richardson, *J. A.* Salmon hybrids [experiments in hybridization undertaken in the hatchery at Karluk, Alaska, note by D. S. Jordan] Science, 1906, n. s. **23**, 434. 1906.1

Richardson, (*Sir*) *John* [1787–1865] For biography *see* McIlraith, J. Life of Sir John Richardson. London. 1868. xi, 280 p. Also article by T. N. Gill in The Osprey, 1902, **6**, 13–17.

—— Account of some fishes observed during Captain Franklin's and Dr. Richardson's journey to the Polar sea. Mem. Wern. Nat. Hist. Soc. Edinburgh, 1823–24, **5**, 509–522. 1823.1

—— Appendice au journal de l'expédition du Capt. Franklin, sur des poissons recueillis dans cette expédition. Bull. Sci. Nat. (Férussac), 1825, **5**, 122–124. 1825.1

—— Fauna Boreali-Americana; or, the zoology of the northern parts of British America, containing descriptions of the objects of natural history collected on the late northern land expeditions, under the command of Sir John Franklin, R. N. 4 vols. London & Norwich, 1831–37. pls. 4°. 1831.1

Part iii, The fish, with 24 pls., 14 of which are colored. 1836.

—— Salmones (In Ross, Sir J. Narrative of a second voyage in search of a northwest passage and of a residence in the arctic regions during 1829–33, etc. Appendix. London, 1835) 1835.1

—— Report on North American zoology. Rept. Brit. Assoc. Adv. Sci., 6. meet. 1836 (1837), 121–224. 1837.1

Pisces, p. 202–223.

—— Description of fishes collected at Port Arthur in Van Diemen's land. Proc. Zool. Soc. London, 1839, **7**, 95–100. — Ann. Mag. Nat. Hist., 1840, **4**, 450–457. 1839.1

—— On some new species of fishes from Australia. Proc. Zool. Soc., London, 1840, **8**, 25–30. — Ann. Mag. Nat. Hist., 1841, **6**, 306–310. 1840.1

—— Descriptions of Australian fish. Trans. Zool. Soc. London, 1841, **3**, 133–184. 8 pls. 1841.1

—— Notices and drawings of three new genera of marine fishes [Nemadactylus, Latris, Hoplegnathus] from Van Diemen's land. Rept. Brit. Assoc. Adv. Sci., 11. meet., 1841, pt. 2, 71. 1841.2

—— On some new or little known fishes from the Australian seas. Proc. Zool. Soc. London, 1841, **9**, 21–22. — Ann. Mag. Nat. Hist., 1841, **8**, 464–466. 1841.3

—— Contributions to the ichthyology of Australia. Ann. Mag. Nat. Hist., 1842, **9**, 15–31; 120–131; 207–218; 384–393. *Ibid.*, **10**, 25–34. *Ibid.*, 1843, **11**, 22–28; 169–182; 352–359; 422–428; 489–497. 1842.1

—— Description of a collection of fishes formed at Port Arthur, Tasmania. Tasmanian Journ. Nat. Sci., 1842, **1**, 99–108. 1842.2

—— Description of Australian fishes. 2 vols. London, 1842. 8 pls. 4°. 1842.3

—— On a specimen of *Machærium subducens* from Port Essington, New Holland. Rept. Brit. Assoc. Adv. Sci., 12. meet., 1842, 69–70. 1842.4

—— Report on the present state of the ichthyology of New Zealand. Rept. Brit. Assoc. Adv. Sci., 12. meet., 1842, 12–30. 1842.5

—— Description of the lurking macheie [*Machærium subducens*] from the northern coast of New Holland. Ann. Mag. Nat. Hist., 1843, **12**, 175–178. pl. 1843.1

—— Icones piscium, or plates of rare fishes. London, 1843. 8 p. 5 col. pls. 4°. 1843.2

—— List of fish . . . of New Zealand (In Dieffenbach, E. Travels in New Zealand, vol. ii. London, 1843. 8°) 1843.3

—— Sopra alcuni pesci nuovi o poco conosciuti dei mari Australi. Nuov. Ann. Sci. Nat. Bologna, 1843, **9**, 180–182. 1843.4

—— Beschreibung australischer Fische. Isis (Oken), 1844, 770–773. 1844.1

—— Description of a genus of Chinese fish [Hapalogenys] Ann. Mag. Nat. Hist., 1844, **13**, 462–464. 1844.2

—— Description of a new genus of gobioid fish [Channichthys] Ann. Mag. Nat. Hist., 1844, **13**, 461–462. 1844.3

—— Generic characters of an undescribed Australian fish [*Patæcus fronto*] Ann. Mag. Nat. Hist., 1844, **14**, 280–281. 1844.4

—— Ichthyology (In The zoology of the voyage of H. M. S. "Sulphur," under the command of Captain Sir Edward Belcher, during the years 1836–42; edited by R. B. Hinds, p. 51–150. 30 pls. London, 1844) 1844.5

—— Catalogue of fish found at King George's sound (In Eyre, E. J. Journals of expeditions of discovery into central Australia, etc. vol. i, appendix. London, 1845. 8°) 1845.1

—— Generic characters of *Gasterochisma melampus*, a fish which inhabits Port Nicholson, New Zealand. Ann. Mag. Nat. Hist., 1845, **15**, 346. 1845.2

—— Rapport sur l'ichthyologie de la Chine. L'Institut, 1845, **13**, 337. 1845.3

—— Report on the ichthyology of the seas of China and Japan. Rept. Brit. Assoc. Adv. Sci., 15. meet., 1845, 187–320. — Notizen (Froriep), **35**, 117–118. — Nuovi Ann. Sci. Nat., 1848, 2. ser. **9**, 465–471. 1845.4

Richardson, *J.*

—— Ueber die Ichthyologie Chinas. Neue Notizen (Froriep), 1845, **35**, no. 756, 117–118. 1845.5

—— Descriptions of six fish (In Stokes, John Lort. Discoveries in Australia; with an account of the coast and rivers explored and surveyed during the voyage of H. M. S. "Beagle," in . . . 1837–43 . . . also a narrative of Capt. O. Stanley's visits to the Arafūra sea. 2 vols. London, 1846. illust. 8°) 1846.1

—— Fishes (In Adams, Arthur. The zoology of the voyage of H. M. S. "Samarang"; under the command of Captain Sir Edward Belcher, during the years 1843–1846. London, 1848. 28 p. 10 pls. 4°) 1848.1

—— Description of Australian fish. Trans. Zool. Soc. London, 1849, **3**, 69–131; 133–185. 8 pls. 1849.1

—— Notices of Australian fish. Proc. Zool. Soc. London, 1850, **18**, 58–77. 3 pls. — Ann. Mag. Nat. Hist., 2. ser. **7**, 273–292. 1850.1

—— Vertebrates, including fossil mammals (In Forbes, Edward, editor. The zoology of the voyage of H. M. S. "Herald," under the command of Captain Henry Kellett, R. N., during the years 1845–51. London, 1854 [Fishes] p. 156–171. 5 pls.) 1854.1

Describes species of Platessa and Salmo.

—— Fishes (In Belcher, Sir E. The last of the Arctic voyages in search of Sir J. Franklin, vol. ii. London, 1855. 40 pls. 8°) 1855.1

—— Ichthyology (In Encyclopædia Britannica. London, 1856. 137 illust. 4°) 1856.1

—— On some fish from Asia Minor and Palestine. Proc. Zool. Soc. London, 1856, **24**, 371–377. 1856.2

—— On Siphonognathus, a new genus of Fistularidæ. Proc. Zool. Soc. London, 1857, 237–240. pl. 1857.1

—— (*editor*) A history of British fishes by William Yarrell. 3. ed. 2 vols. London, 1859. 8°. 1859.1

—— Occurrence of the sea bullhead [Cottus] at Montrose. Zoologist, 1860, **18**, 6993. 1860.1

—— Singular account of the sail fluke (*Zeugopterus velivolans* [*Rhombus megastoma*]) Zoologist, 1860, **18**, 6993–6994. 1860.2

—— On the poisonous effect of a small portion of the liver of a Diodon inhabiting the seas of southern Africa. Journ. Linn. Soc. London, 1861, **5**, 213–216. 1861.1

Richardson, (*Sir*) *John,* & **Gray,** *John Edward.* The Zoology of the voyage of H. M. S. "Erebus and Terror," under the command of Capt. Sir J. C. Ross . . . during . . . 1839–43. Edited by J. Richardson . . . and J. E. Gray. London, 1844–45. illust. 4°. 1844.1

Ichthyology, by Sir J. Richardson. 39 pls.

Richardson, *Linsdall* [1881 —] On the occurrence of Ceratodus in the Rhaetic at Garden cliff, Westbury-on-Severn, Gloucestershire, with some remarks upon its distribution in British formations. Proc. Cotteswald Nat. Field Club, 1906, **15**, 267–271. fig. 1906.1

Richardson, *Robert Earl.* A review of the sunfishes of the current genera Apomotis, Lepomis and Eupomotis, with particular reference to the species found in Illinois. Bull. Illinois State Lab. Nat. Hist., 1904, **7**, 27–35. 4 figs. 1904.1

—— Observations on the breeding habits of fishes at Havana, Illinois, 1910 and 1911. Bull. Illinois State Lab. Nat. Hist., 1913, **9**, 405–416. pl. 1913.1

—— Observations on the breeding of the European carp in the vicinity of Havana, Illinois. Bull. Illinois State Lab. Nat. Hist., 1913, **9**, 387–404. pl. 1913.2

Richardson, *Robert Earl,* & **Forbes,** *Stephen Alfred. See* **Forbes** & **Richardson.**

Richardson, *Robert Earl,* & **Jordan,** *David Starr. See* **Jordan** & **Richardson.**

Richarz, *P. Stephen.* Die Neokombildungen bei Kaltenleutgeben. Jahrb. Geol. Reichsanst. Wien 1904 (1905), **54**, 343–358. pl. & 2 figs. 1905.1

Pycnodus couloni Ag., p. 348.

Riche, *Attale* [1851 —] Description paléontologique de la zône à *Lioceras concavum* du Mont d'Or lyonnais. Ann. Univ. Lyon (*Sci., Méd.*), 1904, 2. sér. **1**, no. 14, 75–214. 1904.1

Asteracanthus ornatissimus Ag., p. 75–76.

Richet, *Charles Robert* [1850 —] Sur l'acide du suc gastrique. C. R. Acad. Sci. Paris, 1878, **86**, 676–679. 1878.1

Lophius, Scyllium, Raja.

—— Observations sur la respiration de quelques poissons marins. C. R. Mém. Soc. Biol. Paris, 1880, 7. sér. **1**, 314–316. 1880.1

—— De quelques faits relatifs à la digestion des poissons. Arch. de Physiol., 1882, 2. sér. **9**, 536–558. 1882.1

Squales, carpe et tanche.

—— Les poissons électriques. Rev. Scient., 1882, **2**. 1882.2

—— Des diastases chez les poissons. C. R. Mém. Soc. Biol. Paris, 1884, 8. sér. **1**, 74–76. 1884.1

—— Expériences sur la vie des poissons dans divers milieux, et sur l'action physiologique des différents sels de soude. C. R. Mém. Soc. Biol., 1886, 8. sér. **3**, 482–488. 1886.1

—— Des milieux acides ou basiques dans lesquels peuvent vivre les poissons de mer. C. R. Mém. Soc. Biol. Paris, 1886, 8. sér. **3**, 488–489. 1886.2

Richet, *Charles Robert,* & **Héricourt,** *J. See* **Héricourt** & **Richet.**

Richet, *Charles Robert,* & **Mourrut,** —— De quelques faits à la digestion gastrique des poissons. C. R. Acad. Sci. Paris, 1880, **90**, 879–881. 1880.1

Richiardi, *Sebastiano* [— 1904] Sul' *Rhombus diaphanus* del Rafinesque. Proc.-Verb. Soc. Tosc. Sci. Nat., 1880, 271–273. 1880.1

Richter, *Johann Gottfried Ohnefalsch.* Godleerende vischkunde of eene natuur, ontleed- en oordeelkundige beschrijving der visschen in het algemeen, en hunne bijzondere deelen, enz. Alsmede eenige verhandelingen over de barnsteen, paarl-, koraal- en oestervisscherij, voorzien met noodige registers, uit het oorspronkelijk Hoogduitsch. 2 vols. Dordrecht, 1768. pls. 4°. 1768.1

The original edition was published at Leipzig in 1754. 912 p. pl.

—— Vischkundige onderwyser; in eene natuur-ontleed-huishond-en Oordeelkundige beschryving der vischen, etc. With preface by J. D. Titius. Dordrecht, 1780. 319 p. 4°. 1780.1

Richter, *Reinhard* [1813–1884] Saalfische in alter Zeit. Programm Realschule Progymn. Saalfeld, 1865. 14 p. 8°. 1865.1

—— Aus dem thüringischen Diluvium. Zeitschr. Deutsch. Geol. Ges., 1879, **31**, 282–298. 1879.1

Esox lucius L., p. 292.

Richters, *Ferdinand.* Ueber einige im Besitz der Senckenbergischen Naturforschenden Gesellschaft befindliche ältere Handschriften und Fisch-Abbildungen. Ber. Senckenberg. Naturf. Ges. Frankfurt-a. M., 1890, 3–36. 4 pls. 1890.1

An account of, and extracts from manuscript notes on freshwater fishes of Russia by Steller, Merck, Güldenstädt, Gmelin, Georgi and Falk, accompanied by unpublished drawings.

—— Der Bitterling. Prometheus. Berlin, 1901, **12**, 459–461. fig. 1901.1

Ricketson, *Daniel.* History of New Bedford (and other towns) New Bedford, 1858. 408 p. 1858.1

Contains an account of New England fisheries.

Rico, *B.* Pisciculture dans le département du Puy-de-Dôme. Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 369–381. 1869.1

—— Stabulation des salmonides dans des espaces restreints. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 490–496. fig. 1874.1

—— Acclimatation et reproduction de l'ombre-chevalier. Bull. Soc. Acclim. Paris, 1877, 3. sér. **4**, 490–496. 1877.1

Ricord, *Alexandre.* Nouveau procédé pour conserver les poissons. Bull. Sci. Nat. (Férussac), 1827, **12**, 276. *Ibid.*, 1830, **22**, 156. 1827.1

Riddell, *Maria.* Voyages to the Madeira and leeward Caribbean isles with sketches of the natural history of these islands. Edinburgh, 1792. 1792.1

Riddell, *W.* Report on the hydrographic, planktonic and other periodic cruises of the "James Fletcher" in 1912. Rept. Lancashire Sea-Fisheries Lab., 1912, 51–58. chart. 1912.1

—— Report on the plankton of the periodic cruises of the "James Fletcher" in 1912–13. Rept. Lancashire Sea-Fisheries Lab., 1912, 59–68. 2 tables. 1912.2

—— Herring investigations (with description of a new fish-measuring board) 22. Rept. Lancashire Sea-Fisheries Lab. 1913 (1914), 235–249. 2 figs. — Trans. Liverpool Biol. Soc., 1914, **28**, 325–339. 2 figs. 1914.1

—— Report on herring measurements. Proc. Trans. Liverpool Biol. Soc., 1915, **29**, 171–200. 5 tables. 1915.1

Riddell, *W.*, & **Alexander,** *D. Moore.* Note on an ulcerative disease of the plaice. 20. Rept. Lancashire Sea-Fisheries Lab. 1911 (1912), 85–91. 2 pls. — Trans. Liverpool Biol. Soc., **26**, 155–161. 2 pls. 1912.1

Riddle, *George W.* Restocking the Merrimac river with lamprey eels. Bull. U. S. Fish Comm., 1885, **5**, 320. 1885.1

Ridewood, *W. G.* The air-bladder and ear of British clupeoid fishes. Journ. Anat. Physiol., London, 1891, 2. ser. **6**, 26–42. figs. 1891.1

—— On the hyoid arch of Ceratodus. Proc. Zool. Soc. London, 1894, 632–640. figs. 1894.1

—— On the spiracle and associated structures in elasmobranch fishes. Anat. Anz., 1896, **11**, 425–433. 2 figs. 1896.1

—— The teeth of fishes. Nat. Sci., 1896, **8**, 380–391. figs. 1896.2

—— Note on the extrabranchial cartilages of elasmobranch fishes. Anat. Anz., 1897, **13**, 499–501. 1897.1

—— On the eyelid-muscles of the Carchariidæ and Scyllium. A contribution to the morphology of the nictitating membrane of sharks. Journ. Anat. Physiol., London, 1898, 2. ser. **13**, 228–242. figs. 1898.1

—— Note on the basibranchial skeleton of *Echinorhinus spinosus.* Anat. Anz., 1899, **15**, 346–348. fig. 1899.1

—— On the relations of the efferent branchial blood-vessels to the "circulus cephalicus" in teleostean fishes. Proc. Zool. Soc. London, 1899, 939–956. 3 pls. 1899.2

—— Some observations on the caudal diplospondyly of sharks. Journ. Linn. Soc. London (*Zool.*), 1899, **27**, 46–59. 2 figs. 1899.3

—— On the cranial osteology of the fishes of the families Elopidæ and Albulidæ, with remarks on the morphology of the skull in the lower teleostean fishes generally. Proc. Zool. Soc. London, 1904, pt. 2, 35–81. 11 figs. 1904.1

—— On the cranial osteology of the fishes of the families Mormyridæ, Notopteridæ and Hyodontidæ. Journ. Linn. Soc. London (*Zool.*), 1904, **29**, 188–217. 4 pls. 1904.2

—— On the cranial osteology of the clupeoid fishes. Proc. Zool. Soc. London, 1905, pt. 1, 448–493. 25 figs. 1905.1

—— On the cranial osteology of the fishes of the families Osteoglossidæ, Pantodontidæ and Phractolaemidæ. Journ. Linn. Soc. London (*Zool.*), 1905, **29**, 252–282. 3 pls. 1905.2

—— On the skull of *Gonorhynchus greyi.* Ann. Mag. Nat. Hist., 1905, 7. sér. **15**, 361–372. pl. & fig. 1905.3

—— Guide to the gallery of fishes in the department of zoology of the British Museum (Natural History) London, 1908. 209 p. illust. 8°. 1908.1

For a similar guide to the collection of fossil fishes, etc., *see* Woodward, A. S., 1905.1.

—— Notes on the South American freshwater flying-fish, Gastropelecus, and the common flying-fish, Exocœtus. Ann. Mag. Nat. Hist., 1913, 8. ser. **12**, 544–548. pl. 1913.1

Ridge, *R. J.* The mackerel fishery in the west of England. Journ. Mar. Biol. Assoc., 1889–90, n. s. **1**, 72–73. 1889.1

Riebesell, *P.* Die elektrischen Organe der Zitterfische. Verh. Nat. Ver. Hamburg, 1913, 3. ser. **20**, xlv–xlvi. 1913.1

Riedel, —— Probe mit Lachszucht in Forellenbächen. Circul. Deutsch. Fischerei Ver., 1873, no. 7, 266. 1873.1

Riedel, *Karl.* Ueber das Massensterben des Girardinus spec. (*G. januarius* var.? gescheckte Form) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 775–776; 795–796. 1910.1

—— Xanthorismus bei einer Ellritze. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 150–151. 1911.1

—— *Gobius fluviatilis* Bonelli. Die Flussgrundel. Ihr Fortpflanzungsgeschäft. 41. Ber. Nat. Ver. Schwaben-Neuburg, 1913, 163–166. 1913.1

—— Ueber Gardaseefische, namentlich die Fortpflanzung der Flussgrundel (*Gobius fluviatilis* Bonelli) Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 387–390. figs. 1914.1

Riedel, *W.* Zur Frage der Maifisch-Erbrütung. Allgem. Fischerei Zeitg., 1894, **19**, 59–60. 1894.1

Riegel, *E.* Examen chimique de l'huile de foie de morue. Journ. de Pharm., 1852, **22**, 79–80. 1852.1

Rieneck, —— Ueber die Schichtung des Forellenkeims. Arch. Mikr. Anat., 1869, **5**, 356–366. fig. 1869.1

Riess, *Johann Albin* [1853 —] Der Bau der Kiemenblätter bei den Knochenfischen. Inaug. Dissert. Bonn, 1881. 35 p. 3 pls. 8°. — Arch. Naturgesch., 1881, 65. Jahrg., 518–550. 3 pls. 1881.1

—— Ueber einige fossile Chimaeriden-Reste im Münchener palæontologischen Museum. Palæontographica, 1887, **34**, 1–27. 3 pls. 1887.1

Rietstap, *Gerard H. A. N.* De haring en de haringvisscherij. Tijdschr. Nederl. Maatsch., 1864, **27**, 312–338. 1864.1

—— De zeevisscherij en de makreel. Tijdschr. Nederl. Maatsch., 1870, **33** (3. ser. **11**), 122–150. 1870.1

Riggio, *Giuseppe.* Corrispondenze scientifiche moderne degli animali figurati nel Panphyton siculum del Cupani [Pesci] Nat. Sicil., 1882, **11**, 160–163. 1882.1

Refers to the natural history work of Francisco Cupani published at Palermo in 1713.

—— Cattura di *Carcharodon rondeletii* Mull. Henl. nelle acque di capo Gallo e di isola delle Femine. Nat. Sicil., 1894, **13**, 130–133. 1894.1

—— Sopra un caso di notevole ramificazione dei ciechi pilorici di *Centrolophus pompilus* Cuv. e Val. Nat. Sicil., 1894, **13**, 206–211. 3 figs. 1894.2

Riggio, *Giuseppe,* & **Doderlein,** *P. See* **Doderlein** & **Riggio.**

Rijnberk, *Gerard Abraham van. See* **Rynberk,** *Gerard Abraham van.*

Riley, *Charles Valentine* [1843–1895] Water-beetles destroying carp. Bull. U. S. Fish Comm., 1885, **5**, 311. 1885.1

Riley, *Henry.* On a fossil in the Bristol museum (*Squaloraia dolichognathus*) and discovered in the Lias at Lyme Regis. Proc. Geol. Soc., 1826, **1**, 483–484. — Trans. Geol. Soc., 1833, **5**, 83–88. 1826.1

Rimbaud, *J. B. A.* De la pêche côtière en France. Toulon, 1865. 8°. 1865.1

—— Sur la pêche côtière. Bull. Soc. Acclim. Paris, 1866, 2. sér. **3**, 297; 304; 624–631. 1866.1

—— L'industrie des eaux salées. Dissertations critiques sur la pêche, l'ichthyologie, la culture du poisson, etc., Paris, 1869. 8°. 1869.1

—— La mer et les poissons. Bull. Soc. Acad. Var., 1870, n. s. **3**, 237–282. 1870.1

—— Les causes de la cherté du poisson. Bull. Soc. Acclim. Paris, 1875, 3. sér. **2**, 652–667. 1875.1

—— Om aarsagerne til fiskemangelen. Nord. Tidsskr. Fiskeri, 1876, n. s. 3. Jahrg., 80–96. 1876.1

Ringel, *Ernst.* Zwei neue Goldfisch-Varietäten. Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 91–92. 1901.1

—— Unsere Lebendgebärenden. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 248–250; 258–260; 275–277; 290–293. 10 figs. 1911.1

—— Unsere Haplochilus-Arten, ihre Haltung, Pflege und Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 267–269; 279–281; 293–294. 19 figs. 1912.1

Ringer, *Sydney.* The influence of saline media on fishes. Journ. Physiol., London, 1883, **4** (*Suppl.*), vi–viii. 1883.1

—— Concerning the influence of saline media on fish. Journ. Physiol., London, 1884, **5**, 98–115. 1884.1

Ringer, *W. E.*, & **Herwerden,** *M. A. See* **Herwerden** & **Ringer.**

Ringueberg, *Eugene N. S.* A new Dinichthys from the Portage group of western New York. Amer. Journ. Sci., 1884, 3. ser. **27**, 176–178. 2 figs. 1884.1

Describes *D. minor*, not *D. minor* of Newberry; later called *D. ringuebergi* by Newberry.

Rink, *Henrik Johan* [1819–1893] Grønland geographisk og statistik beskrevet. 2 vols. Kjøbenhavn, 1857. illust. 8°. 1857.1

Vol. ii. Naturhistoriske bidrag. Pattedyr, fugle og fiske, of J. Reinhardt.

—— Danish Greenland; its people and its products. Edited by R. Browne, etc. London, 1877. xvii, 468 p. 16 pls. 8°. 1877.1

The fishes and fisheries of Greenland, p. 131–135.

Rink, *H. J.*, **Reinhardt,** *J. T.*, **Schiödte,** *J. C.*, **Mörch,** *O. A. L.*, **Lütken,** *C. F.*, & **Lange,** *J. See* **Reinhardt, Schiödte** & others.

Ripley, (*Miss*) *H. Ernestine.* Bibliography of the published writings of Henry Fairfield Osborn [Privately printed] Lancaster, Pa., 1911. 31 p. 8°. 1911.1

—— The same. 2. ed. [for the years 1877–1915] Lancaster, Pa., 1916. 74 p. [with a supplement of 2 pages dated February, 1917] 1916.1

Ripple, *Robert.* Experiments in rearing small-mouth black bass. Trans. Amer. Fisheries Soc. 1908 (1909), 126–130. 1909.1

Risberg, *G.* Observationes ichthyologicæ. Lundæ, 1835. 8°. 1835.1

Risso, *Antoine* [1777–1845] Ichthyologie de Nice, ou Histoire naturelle des poissons du département des Alpes Maritimes. Paris, 1810. 388 p. 11 pls. 8°. 1810.1

—— Mémoire sur deux nouvelles espèces de poissons du genre Scopelus, observées dans la mer de Nice [*Scopelus augustidens, S. balbo*] Mem. Accad. Torino, 1820, **25**, 262–269. — Faunus (Gistl), **1**, 19. Heft, 93–94. 1820.1

—— Mémoire sur un nouveau genre de poisson [*Alepocephalus rostratus*] Mem. Accad. Torino, 1820, **25**, 270–272. figs. — Bull. Sci. Nat. (Férussac), **1**, 376. 1820.2

—— Observations sur le genre et les espèces Trigla vivant dans la Méditerranée. Mém. Soc. Linn. Paris, 1824, **3**, 24–37. — Bull. Sci. Nat. (Férussac), **2**, 298–299. 1824.1

—— Histoire naturelle des principales productions de l'Europe méridionale et particulièrement de celles des environs de Nice et des Alpes maritimes. 5 vols. Paris & Strasbourg, 1826. 46 pls. 8°. 1826.1

—— Note sur une nouvelle espèce du genre Gymnetrus [*G. mullerianus* Risso] Arch. Naturgesch., 1840, 6. Jahrg., 13–16. 1840.1

—— Observations sur quelques poissons de la mer de Nice [*Notacanthus bonaparte, Dentex vulgaris, D. synodon, D. erythrostoma, Sebastes argus*] Arch. Naturgesch., 1840, 6. Jahrg., 376–393. fig. — Journ. Physique, **91**, 241. 1840.2

Ristow, *C.* Aalbrut. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 253. 1880.1

Ritchie, *James.* An ambicolored turbot with eyes approximately normal in position. Ann. Scot. Nat. Hist., 1908, 146–150. fig. 1908.1

—— A hump-backed trout from Stranraer. Ann. Scot. Nat. Hist., 1908, 223–227. pl. 1908.2

Ritgen, *Ferdinand August von.* Vergleichende Betrachtung des starren Gerüstes, welches das Fortpflanzungsgeräthe trägt und umgiebt. 1. Abtheilung. Fische. Nova Acta Acad. Cæs. Leop., 1820, **14**, 285–328. fig. 1820.1

Ritsema, *C.* Over de voortplantingsorganen der Alen. Isis (Hartogh Heijs), 1875, **4**, 313–315. 1875.1

Rittener, *Th.* Etude géologique de la Côte-au-Fées et des environs de St. Croix et Baulmes. Matér. Carte Géol. Suisse, 1902, n. s. **6**. 116 p. 7 figs. 1902.1

Ritter, *B.* Eine Methode der Zandererbrütung. Allgem. Fischerei Zeitg., 1906, 31. Jahrg., 169–170. 1906.1

Ritter, *C.* Zur Histologie der Zapfen der Fischretina. Month. Intern. Journ. Anat. Hist., 1891, **8**, 128–134. pl. 1891.1

Ritter, *Paul.* Beiträge zur Kenntniss der Stacheln von Trygon und Acanthias. Inaug. Dissert. Berlin, 1900. 56 p. 7 pls. 8°. 1900.1

Ritter, *William Emerson* [1856 —] On the eyes, the integumentary sense papillæ, and the integument of the San Diego blind fish (*Typhlogobius californiensis* Steindachner) Bull. Mus. Comp. Zool., Harv. Coll., 1893, **24**, 51–102. 4 pls. 1893.1

—— A summer's dredging on the coast of southern California. Science, 1902, n. s. **15**, 55–65. 1902.1

—— The marine biological station of San Diego. Its history, present conditions, achievements and aims. Univ. California Public. (*Zool.*), 1912, **9**, 137–248. 7 pls. 2 maps. 1912.1

—— Patten on the origin of the vertebrates, and the general question of the value of speculations on the phylogeny of organic beings. Amer. Naturalist, 1912, **46**, 623–632. 1912.2

Ritter, *William Emerson,* & **Bailey,** *Samuel E.* On the weight of developing eggs. Univ. California Publ. (*Zool.*), 1908, **6**, 1–10. 1908.1

i. The possible significance of such investigations.
ii. Practicability of the determinations.
Material used: eggs of *Fundulus parvipinnis.*

Ritzema Bos, *Jan.* *See* **Bos,** *Jan Ritzema.*

Rivera, *E.* Algunas observaciónes hechas acerca de la educación de que son susceptibles los peces, y de si oyen ó no. Bol. Soc. Españ. Hist. Nat., Madrid, 1905, **4**, 59–61. 1905.1

Rivers, *Guy.* Scientific names of the bass. Forest & Stream, 1878, **11**, 400. 1878.1

Rivière, *(Baron)* —— *de.* Considerations sur les poissons et particulièrement sur les anguilles: mémoire lu à la Société Royale et Centrale d'Agriculture, le 1^er^ juillet, 1840. Paris, 1841. 8°. 1840.1

—— Considérations sur les poissons et particulièrement sur les anguilles. Rev. Zool., 1841, p. 351. 1841.1

—— L'aquiculture; nécessité de fonder des fermes modèles pour l'étudier et l'enseigner; mémoire lu le 13 janvier 1866 à l'académie du Gard, suivi de vues sur un vaste port de refuge à tous les navigateurs à l'embouchure du Rhône. Nimes, 1866. 8°. 1866.1

Rivière, *Emile* [1835 —] De quelques hyperostoses de poissons trouvées dans les grottes quaternaires de Menton en Italie. C. R. Assoc. Franç. Avanc. Sci., 8. Sess. 1879 (1880), 595–600. 1880.1

—— Exposition de la mission de Brazza au Muséum. Rev. Scient., 1886, 2. sér. **23**, 13–23. 1886.1

—— Des reptiles et des poissons trouvés dans les grottes de Menton (Italie) C. R. Acad. Sci. Paris, 1886, **103**, 1211–1213. 1886.2

—— Faune des oiseaux, des reptiles et des poissons des grottes de Menton. C. R. Assoc. Franç. Avanc. Sci., 15. sess., 1887, 450–457. 1887.1

Rivière, *P.*, & **Jolyet,** *F.* *See* **Jolyet & Rivière.**

Rixford, *George C.* Carp grow rapidly in Florida. Forest & Stream, 1880, **15**, 129. 1880.1

—— The culture of carp. Forest & Stream, 1880, **15**, 309. 1880.2

—— Progress and results in fish culture (carp) Bull. U. S. Fish Comm. 1881 (1882), **1**, 396. 1882.1

Roach, *William.* Notes on the herring, long-line and pilchard fisheries of Plymouth during the winter 1889–90. Journ. Mar. Biol. Assoc., 1889–90, n. s. **1**, 382–390. *Ibid.*, 1891–92, **2**, 180–188. 1889.1

Roads *(junior)*, *Samuel.* The history and traditions of Marblehead [Mass.] Boston, 1880. 423 p. 8°. 1880.1

Contains occasional mention of the fisheries from their beginning up to the present time.

Robbins, *Isaac D.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 460. 1879.1

Robert, *L.* Utilité des truites dans les réservoirs d'alimentation des villes. Bull. Soc. Centr. Aquicult. Pêche, 1889, **1**, 143. 1889.1

Roberts, *A. W.* Batoidei, or rays. Scient. Amer., 1880, **43**, 264. 3 figs. 1880.1

—— Fish parasites. Scient. Amer., 1880, **43**, 39–40. figs. 1880.2

—— The leather carp. Scient. Amer., 1880, **43**, 71. 1880.3

Roberts, *George Edward* [1831–1865] On some new localities for fossil fishes in the north of Scotland. Proc. Geol. Assoc., 1852–63, **1**, 355–357. 1852.1

—— On the distribution of Cephalaspis and Pteraspis in England. Geologist, 1861, **4**, 102–109; 189–190. 1861.1

—— On some remains of Bothriolepis from the Upper Devonian sandstones of Elgin. Rept. Brit. Assoc. Adv. Sci., 33. meet., 1863, 87. — Quart. Journ. Geol. Soc., 1864, **20**, 198. — Phil. Mag., **27**, 545. 1864.1

Roberts, *George Edward,* & **Morris,** *John.* *See* **Morris & Roberts.**

Roberts, *William.* Quantities of pilchards exported from Cornwall, and prices at which they were sold; from 1815 to 1871. Journ. Roy. Inst. Cornwall, 1871–73, **4**, 159–161. 1871.1

Robertson, *Charles.* On the cervical and occipital vertebræ of osseous fishes. Rept. Brit. Assoc. Adv. Sci., 31. meet., 1861, 172–173. pl. — Edinburgh New Phil. Journ., 1862, n. s. **15**, 242–250. 4 figs. 1861.1

Robertson, *David.* Notes on the herring. Proc. Nat. Hist. Soc. Glasgow 1858–69 (1869), **1**, 240–247. 1869.1

—— On *Petromyzon fluviatilis* and its mode of preying on *Coregonus clupeoides.* Proc. Nat. Hist. Soc. Glasgow 1869–75 (1875), **2**, pt. 1, 61–62. 1875.1

Robertson, *D.*

—— Loch Fyne herring. Proc. Trans. Nat. Hist. Soc. Glasgow, 1888, 22–24. 1888.1

—— The food of fishes. Proc. Trans. Nat. Hist. Soc. Glasgow, 1890, n. s. **2**, 146–150. 1890.1

—— The pike, *Esox lucius* Linn. Proc. Trans. Nat. Hist. Soc. Glasgow, 1890, n. s. **2**, 212–214. 1890.2

Robertson, *G. A.* Notes on Africa, particularly those parts which are situated between cape Verde and the river Congo. London, 1819. map. 8°. 1819.1

Fish and fisheries of cape Palmas, p. 62–63. Fish of Cavally, p. 68; 157; 230. Herrings, p. 158.

Robertson, *James W.* Technical education in relation to fishermen's occupations. Comm. Conservation Canada, Committee Fisheries, Game & Fur-bearing Animals, Toronto, 1916, 28–36. pl. 1916.1

Robertson, *Jane I.* The development of the heart and vascular system of *Lepidosiren paradoxa*. Quart. Journ. Micr. Sci., 1913, **59**, 53–132. pl. & 31 figs. 1913.1

Robertson, *Muriel.* Notes upon a haplosporidian belonging to the genus Icthyosporidium. Proc. Roy. Phys. Soc. Edinburgh, 1908, **17**, 175–187. 2 pls. 1908.1

—— Notes on an ichthyosporidian causing a fatal disease in sea-trout. Proc. Zool. Soc. London, 1909, 399–402. 3 pls. 1909.1

Robertson, *William C.* Scientific investigations. General statement. 18. Ann. Rept. Fishery Board Scotland, 1900, 7–18. 1900.1

Robertson-Proschowski, *A.* Sur le poisson-chat. Bull. Soc. Nat. Acclim. Paris, 1904, **51**, 269–270. 1904.1

—— Observations sur une athérine (*Atherina rissoi* Cuv. et Val.) élevée en bassin d'eau douce à Nice. Bull. Soc. Centr. Aquicult. Pêche, 1907, **19**, 183–185. 1907.1

Robeson, *John S.* The fisheries of Syria in 1882. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1199. 1885.1

Robida, *I.* Der Huchen (*Salmo hucho* L.) und sein Fang mit der Angel. Laibach, 1902. 121 p. 40 figs. 8°. 1902.1

Robillard, *V. de.* Note sur divers poissons. Trans. Roy. Soc. Mauritius, 1876, n. s. **9**, 41–45. 1876.1

Robin, *A.* Sur la structure des corps rouges du congre. Journ. Anat. Physiol., Paris, 1883, **19**, 528–537. pl. 1883.1

Robin, *Charles Philippe* [1821–1885] Dilatation veineuse dans la cavité ventrale des raies. Proc.-Verb. Soc. Philom. Paris, 1845, 113–114. 1845.1

—— Note relative au système sanguin des plagiostomes. Proc.-Verb. Soc. Philom. Paris, 1845, 116. — L'Institut, 1845, **13**, 452. 1845.2

—— Sur l'appareil particulier de vaisseaux lymphatiques des poissons, décrit sous le nom de système du vaisseau latéral. Proc.-Verb. Soc. Philom. Paris, 1845, 64–69. — L'Institut, 1845, **13**, no. 590, 144–145. 1845.3

—— Sur le système veineux des poissons cartilagineux (Note) C. R. Acad. Sci. Paris, 1845, **21**, 1282. 1845.4

—— Sur un appareil particulier de vaisseaux lymphatiques chez les poissons. Proc.-Verb. Soc. Philom. Paris, 1845, 40–44. — L'Institut, 1845, **13**, no. 600, 232–233. 1845.5

—— Note sur quelques particularités du système veineux de la lamproie [*Petromyzon marinus* L.] Proc.-Verb. Soc. Philom. Paris, 1846, 35–44. — Notizen (Froriep), **38**, 65–72. — L'Institut, **14**, no. 640, 120–123. 1846.1

—— Note sur quelques portions du système veineux des raies [*Raia batis* L., et *Raia clavata* L.] Revue Zool., 1846, **9**, 5–8. 1846.2

—— Recherches sur un organe particulier qui se trouve sur les poissons du genre des raies [Raia Cuv.] Proc.-Verb. Soc. Philom. Paris, 1846, 65–67. — Ann. Mag. Nat. Hist., **19**, 19–25. — Ann. Sci. Nat. (*Zool.*), 3. sér. **7**, 193–302. — Phil. Mag., **30**, 47–53. — C. R. Mém. Soc. Biol. Paris, 1849, 6–10. 1846.3

—— Sur le système veineux des sélaciens. Proc.-Verb. Soc. Philom. Paris, 1846, 113–115. 1846.4

—— Sur les tubes sensitifs des sélaciens, et sur leurs tubes sécréteurs de la mucosité (canal latéral) Proc.-Verb. Soc. Philom. Paris, 1846, 115–116. 1846.5

—— Ueber die Organisation der Knorpelfische. Neue Notizen (Froriep), 1846, **39**, no. 850, 209–212. 1846.6

—— Recherches sur l'appareil électrique des raies. Paris, 1847. 2 pls. 8°. 1847.1

—— Recherches sur un appareil qui se trouve sur les poissons du genre des raies et qui présente les caractères anatomiques des organes électriques. Ann. Sci. Nat. (*Zool.*), 1847, 3. ser. **7**, 193–302. 1847.2
Appareil électrique.

—— Sur l'anatomie d'une nouvelle espèce de glande vasculaire chez les plagiostomes et sur la structure de leur glande thyroïde. Proc.-Verb. Soc. Philom. Paris, 1847, 10–15. — L'Institut, 1847, **15**, 47. 1847.3

—— Sur un organe découvert sur la *Sciæna umbra* C. Proc.-Verb. Soc. Philom. Paris, 1846, 140–142. — L'Institut, 1847, **15**, no. 683, 41–42. 1847.4

—— Sur la structure des ganglions nerveux des raies. Proc.-Verb. Soc. Philom. Paris, 1847, 68–71. — Notizen (Froriep), **2**, 49–52. *Ibid.*, **3**, 212–214. 1847.5

—— Mémoire sur la démonstration expérimentale de la production d'électricité par un appareil propre aux poissons du genre des raies. Journ. Anat. Physiol., Paris, 1865, 507–535; 577–616. pls. — C. R. Mém. Soc. Biol. Paris 1865 (1866), 4. sér. **2**, 3–27. — C. R. Acad. Sci. Paris, 1865, **61**, 160–164. — Gaz. Méd., Paris, 1866, **21**, 110; 129; 160. 1865.1

—— Mémoire sur les phénomènes et la direction de la décharge par l'appareil électrique des raies. Ann. Sci. Nat. (*Zool.*), 1865, 5. sér. **4**, 342–346. — C. R. Acad. Sci. Paris, 1865, **61**, 239–243. 1865.2

—— Mémoire sur l'anatomie des lymphatiques des torpilles comparée à celle des autres plagiostomes. Journ. Anat. Physiol., Paris, 1867, 1–34. 3 pls. — C. R. Acad. Sci. Paris, 1867, **64**, 20–24. — Ann. Mag. Nat. Hist., 1867, 3. ser. **19**, 149–152. — Arch. Cosmol. (Dubois), 1868, 124–125. 1867.1

—— Rapport sur ce mémoire [de Dufossé sur les bruits des poissons] Bull. Assoc. Scient. France, 1872, **11**, 233–236. 1872.1

—— Rapport sur un mémoire de M. le Dr. Dufossé, intitulé: "Sur les bruits et les sons expressifs que font entendre les poissons des eaux douces et des mers de l'Europe." C. R. Acad. Sci. Paris, 1872, **75**, 1074–1078. — Ann. Mag. Nat. Hist., 4. ser. **10**, 470–472. 1872.2

—— Sur la production d'électricité par les raies. C. R. Acad. Sci. Paris, 1879, **88**, 338–339. — Rev. Intern. Sci., 1879, **4**, 272–273. 1879.1

—— Note sur quelques caractères et sur le cœur caudal des anguilles, des congres et des leptocéphales. Journ. Anat. Physiol., Paris, 1880, **16**, 593–628. Also separate; Paris, 1880. 3 pls. 8°. 1880.1

—— Les anguilles mâles, comparées aux femelles. C. R. Acad. Sci. Paris, 1881, **92**, 378–383. — Journ. Anat. Physiol., Paris, **17**, 437–454. — Ann. Mag. Nat. Hist., 5. ser. **7**, 386–392. 1881.1

—— Sur la structure des corps rouges du congre [*Muræna conger* L.] Journ. Anat. Physiol., Paris, 1883, **19**, 528–537. 1883.1

Robinson, *George.* Hatching perch. Chicago Field, 1878, **9**, 355. 1878.1

Robinson, *H.*, & **Annandale,** *Nelson.* *See* **Annandale** & **Robinson.**

Robinson, *Philip Stewart* [1849 —] Fishes of fancy; their place in myth, fable, fairy-tale and folk-lore. With notices of the fishes of legendary art, astronomy and heraldry. Intern. Fisheries Exhib. Lit., London, 1883. Handbooks, **3**, pt. 1. 1883.1

Robinson, *R. E.* A queer fish [*Cottus gobioides* Gir.] Forest & Stream, 1877, **8**, 421. 1877.1

—— Wind fish. Forest & Stream, 1878, **10**, 220. 1878.1

Robinson, *R. K.* A device for counting young fish. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 1001–1004. 1910.1

Robinson, *R. K.*, & **Marsh,** *Millard Cales.* The treatment of fish-cultural waters for the removal of algæ. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 871–890. 2 figs. 1910.1

Robinson, *W. E.* The western mud fish [*Amia occidentalis*] Forest & Stream, 1875, **5**, 83. 1875.1

Robinson, *W. Russell.* A California salmon taken in James river. Bull. U. S. Fish Comm., 1884, **4**, 290. 1884.1

Robson, *Charles Hepburn.* Notes on the habits of the frost fish (*Lepidopus caudatus*) Trans. New Zealand Inst. 1875 (1876), **8**, 218–219. 1876.1

—— Breeding habits of the torpedo. New Zealand Journ. Sci., 1884, **2**, 27–28. 1884.1

—— Notes on the New Zealand frost fish. New Zealand Journ. Sci., 1884, **2**, 289–290. 1884.2

Robson, *John J.* California salmon in lake Ontario. Forest & Stream, 1878, **10**, 482. 1878.1

Robson, *M. A.* The salmon disease and its cause [*Saprolegnia ferox*] Amer. Monthly Micr. Journ., 1880, **1**, 103–107. — Sci. Gossip, 1880, **16**, 129–132. 1880.1

Roche, *A.* Notes sur les poissons secondaires. Bull. Soc. Hist. Nat. Autun, 1900, no. 13, 187–189. 1900.1

Roche, *A.*, & **Demontmerot,** *Charles.* Rapport sur le livre du docteur Scheuchzer intitulé: Plaintes et revendications des poissons. Bull. Soc. Hist. Nat. Autun, 1897, **10**, 48–63. 1897.1

Roché, *Georges.* Etude générale sur la pêche au grand chalut dans le golfe de Gascogne. Ann. Sci. Nat. (*Zool.*), 1893, 7. sér. **15**, 1–84. 1893.1

—— Une lamproie singulière. La Nature, 1893, 149. 1893.2

—— Observation sur la nourriture de la sardine. C. R. Soc. Philom. Paris, 1893, no. 13, 10–11. 1893.3

—— Les grandes pêches maritimes modernes de la France. Paris, 1894. fig. 8°. 1894.1

—— Note sur les conditions du développement de la sardine. Ann. Sci. Nat. (*Zool.*), 1894, 7. sér. **16**, 328–330. 1894.2

—— La pêche du saumon en Hollande. Bull. Soc. Aquicult. Pêche, 1895, **7**, 147. 1895.1

Rochebrune, *Alphonse Trémeau de* [1834 —] Description de quelques espèces nouvelles de poissons propres à la Sénégambie. Bull. Soc. Philom. Paris, 1880, 7. sér. **4**, 159–169. 1880.1

—— Faune de la Sénégambie. Poissons. Act. Soc. Linn. Bordeaux, 1882, **6**, 37–180. 6 pls. Also separate; Paris, 1883. 1883.1

Rochette, *G.* Notice sur la pisciculture. Arch. Sci. Phys. Nat., Genève, 1858, **23**, 353–375. 1858.1

Rock, *Ford.* Fish and fishing in Illinois. Forest & Stream, 1876, **6**, 116. 1876.1

Rockwell, *A. P.* Hatching and distribution of California salmon in tributaries of Great Salt lake. Rept. U. S. Fish Comm. 1873–75 (1876), **4**, 434–435. 1876.1

Rockwell, *Cleveland.* Concerning the Columbia river fisheries. Rod & Gun, 1875, **6**, 121. 1875.1

Rockwood, *A. P.* The native fish of Utah. Trans. Amer. Fisheries Soc. 1873 (1874), 24–25. 1874.1

—— Report to the . . . directors of Zion's Cooperative Fish Association, on the progress in the piscatorial department during the year ending December 31st, 1873. Rept. Deseret Agricult. Manufact. Soc., Salt Lake City, Utah 1872–73 (1874), 5–7. 1874.2

—— Hatching and distribution of California salmon in tributaries of Great Salt lake. Rept. U. S. Fish Comm., 1876, **3**, 434–435. 1876.1

Rodd, *Edward Hearle* [1810–1880] Variety of the turbot [*Rhombus maximus*] Zoologist, 1862, **20**, 8199–8200. 1862.1

Rodewald, *C. Boleophthalmus pectinirostris* L. (?) Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 565–566. fig. 1913.1

—— *Cynolebias bellotti* Stdr. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 210–211. 2 figs. 1913.2

—— *Haplochilus lineatus.* Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 382–384. fig. 1914.1

Rodier, *E.* Note sur un exemplaire du *Centriscus scolopax* Linn. Act. Soc. Linn. Bordeaux, 1898, **53**, lxiii–lxiv. 1898.1

—— Note sur le *Lichia glaucus* Cuv. de la famille des scombridés. Act. Soc. Linn. Bordeaux, 1899, **54** (C. R.), v–vii. 1899.1

—— Sur la coagulation du sang des poissons. Trav. Soc. Sci. Stat. Zool. d'Arcachon, 1900–01, 129–132. 1900.1

—— Sur la pression osmotique du sang et des liquides internes chez les poissons sélaciens. C. R. Acad. Sci. Paris, 1900, **131**, 1008–1010. 1900.2

Rodrigues Ferreira, *Alexandre.* *See* **Ferreira,** *Alexandre Rodrigues.*

Rodway, *James.* Some of our food fishes. Timehri Journ. Agric. Commerc. Soc. Brit. Guiana, 1913, 3. ser. **3**, 43–49. 1913.1

Roebuck, *William Denison,* & **Clarke,** *W. Eagle.* *See* **Clarke** & **Roebuck.**

Roedel, *Hugo.* Eine diluviale Süsswasserablagerung bei Frankfurt a. O. Vorläufige Mittheilung. Helios, 1897, **14**, 101–104. 1897.1

Röhmann, *F.* Ueber den Stoffumsatz in dem thätigen elektrischen Organ des Zitterochen nach Versuchen an der zoologischen Station zu Neapel. Arch. Anat. Physiol. (*Physiol. Abth.*), 1893, 423–482. 1893.1

Roemer, *Carl Ferdinand von* [1818–1891] Texas. Mit besonderer Rücksicht auf deutsche Auswanderung und die physischen Verhältnisse des Landes. Mit einem naturwissenschaftlichen Anhange und einer topographisch-geognostischen Karte von Texas. Bonn, 1849. xv, 464 p. 1849.1

At p. 419–420 are found descriptions of *Lamna texana,* and the genus Ancistrodon Debey. *Otodus appendiculatus, Oxyrhina mantelli* and *Corax heterodon* are mentioned.

—— Notiz über die von Herrn G. Jäger nachgewiesene Uebereinstimmung des *Pygopterus lucius* Ag. mit dem *Archegosaurus dechenii* Goldf. Verh. Naturhist. Ver. Preuss. Rheinl., 1850, 7. Jahrg., 155–157. 1850.1

—— Die Kreidebildungen von Texas und ihre organischen Einschlüsse. Mit einem die Beschreibung von Versteinerungen aus paläozoischen und tertiären Schichten enthaltenden Anhange und mit 11 von C. Hohe nach der Natur auf Stein gezeichneten Tafeln. Bonn, 1852. vii, 100 p. 1852.1

—— Ueber die Auffindung eines fossilen Fisches der Gattung Acanthodes im schwarzen Thonschiefer bei Klein-Neundorf unweit Löwenberg. Uebersicht Schles. Ges., Breslau, 1855, 25. 1855.1

—— Palæoteuthis, eine Gattung nackter Cephalopoden in devonischen Schichten der Eifel. Palæontographica, 1856, **4**, 72–74. pl. 1856.1

A ventral shield of Cyathaspis is described and figured under the name of *Palæoteuthis dunensis.*

—— Ueber Fisch- und Pflanzenführende Mergelschiefer des Rothliegenden bei Klein-Weundorf unweit Löwenberg, und im Besonderen über *Acanthodes gracilis,* den am häufigsten in denselben vorkommenden Fisch. Zeitschr. Deutsch. Geol. Ges., 1857, **9**, 51–84. pl. 1857.1

—— Ueber das Vorkommen von *Rhizodus hibberti* Owen (*Megalichthys hibberti* Agassiz & Hibbert) in den Schieferthonen des Steinkohlengebirges von Volpersdorf in der Grafschaft Glatz. Zeitschr. Deutsch. Geol. Ges., 1865, **17**, 271–276. pl. Abstract in Neues Jahrb. Mineral., 1866, 244. pl. 1865.1

Römer, *Fritz* [1866–1909] Ueber das Vorkommen von *Heteropleuron cultellum* J. W. Kirkaldy bei Ternate. Zool. Anz., 1896, **19**, no. 498, 113–115. 1896.1

—— Die Wanderungen der Fische. Ber. Senckenberg. Nat. Ges., Frankfurt-a.-M., 1909, 101*–105*. 1909.1

Römer, *Fritz,* & **Schaudinn,** *F. R.* Fauna arctica: eine Zusammenstellung der arktischen Tierformen, mit besonderer Berücksichtigung des Spitzbergen-Gebietes auf Grund der Ergebnisse der deutschen Expedition in das nördliche Eismeer im Jahre 1898 . . . herausgegeben von . . . F. Römer . . . und . . . F. Schaudinn . . . (nach ihrem Tode fortgesetzt von . . . A. Brauer) Jena, 1900. 4°. 1900.1

Die Fische, von E. Ehrenbaum.

Römer, *O.* Zur vergleichenden Anatomie des Wirbelthierbeckens auf Grund der Befunde an *Protopterus annectens.* Freiburg, 1889. 8°. 1889.1

Römer-Büchner, *J. B.* Verzeichniss der Steine und Thiere, welche in dem Gebiete der freien Stadt Frankfurt und deren nächster Umgebung gefunden werden. Frankfurt-a.-M., 1827. 2 pls. 8°. 1827.1

Fische, p. 68.

Roesch, *Ch.* La pêche et les poissons dans le territoire de Belfort. Bull. Soc. Belfort. Emulation, 1901, **20**, 233–247. 1901.1

Röse, *Carl.* Beiträge zur vergleichenden Anatomie des Herzens der Wirbelthiere. Morph. Jahrb., 1889, **16**, 27–96. 2 pls. 1889.1

—— Vessels of cyclostomes, etc. Morph. Jahrb., 1890, **16**, 27–97. 1890.1

Röse, *C.*

—— Ueber Zahnbau und Zahnwechsel der Dipnoer. Anat. Anz., 1892, 7. Jahrg., 821–839. 10 figs. 1892.1

—— Ueber die Zahnentwickelung der Fische. Anat. Anz., 1894, **9**, 653–662. 8 figs. 1894.1

—— Ueber die Zahnentwicklung von *Chlamydoselachus anguineus* Garm. Morph. Arbeit., 1894, **4**, 193–206. figs. 1894.2

—— Das Zahnsystem der Wirbelthiere. Anat. Hefte, Wiesbaden, 1896, **4**, 542–591. 1896.1

—— Ueber die verschiedenen Abänderungen der Hartgewebe bei niederen Wirbelthieren. Anat. Anz., 1897, **14**, 21–31; 33–69. figs. 1897.1

An important paper on histological structure of the teeth in elasmobranchs and teleosts. One of the figures shows a scale of Thelodus in cross-section.

Rössler, *E.* Naučno putovanje u svrhu izučavanja slatkovodnog ribarstva [Wissenschaftliche Reise zum Zwecke des Studiums der Süsswasserfischerei] Glasnik Hrvatsk. Narosl. Društva God., 1909, **21**, no. 1, 59–85. 1909.1

Röthig, *P.* Bydrage tot de leer der neurobiotaxis; de verschuiving der motorische kernen in de oblongata van *Myxine glutinosa* en by sommige amphibien. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1913, **22**, 315–324. — Proc. Akad. Wet. Amsterdam (Sect. Sci.), 1913, **16**, 296–305. 1913.1

Röthig, *P.*, & **Kappers,** *C. U. A.* Verdere bydrage tot de studie van de hersenen van *Myxine glutinosa*. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1914, **22**, 1200–1212. figs. — Proc. Akad. Wet. Amsterdam (Sect. Sci.), 1914, **17**, 2–12. 2 pls. 1914.1

Rötteken, *Fr.* Bericht über die Thüringer Fischzucht-Anstalten. Jena, 1878. 18 p. 4°. 1878.1

Roger-Desgenettes, —— De la possibilité d'acclimater dans les eaux de la Marne la famille des salmonés et particulièrement des truites. Bull. Soc. Acclim. Paris, 1863, **10**, 258–260. 1863.1

Rogers, *Austin F.*, & **Beede,** *J. W.* *See* **Beede** & **Rogers.**

Rogers, *Inkermann.* On fossil fish. Rept. Trans. Devonshire Assoc. Advanc. Sci., 1907, **39**, 394–398. pl. 1907.1

Rognerud, *Carl.* Hatching cod in Norway. Bull. U. S. Fish Comm. 1887 (1889), **7**, 113–119. 1889.1

Rohon, *Josef Victor.* Das Centralorgan des Nervensystems der Selachier. Denkschr. Akad. Wiss. Wien, 1877, **38**, pt. 2, 43–108. 9 pls. Also separate; Wien, 1877. 68 p. 4°. 1877.1

—— Ueber den Ursprung des Nervus vagus bei Selachiern mit Berücksichtigung der Lobi electrici von Torpedo. Abh. Zool. Inst. Wien, 1878, **1**, 1–22. pl. Also separate; Wien, 1878. 22 pls. 8°. 1878.1

—— Ueber den Ursprung des Nervus acusticus bei Petromyzonten. Sitzber. Akad. Wiss. Wien, 1882, **85**, pt. 1, 245–267. 2 pls. 1882.1

—— Untersuchungen über *Amphioxus lanceolatus.* Wien, 1882. 6 pls. 4°. 1882.2

—— Zur Histiogenese des Rückenmarkes der Forelle. Sitzber. Bayer. Akad. Wiss., 1884, 39–56. pl. Abstract in Journ. Roy. Micr. Soc., 2. ser. **4**, 546. 1884.1

—— Die Dendrodonten des devonischen Systems in Russland. Palæontologische und vergleichend-anatomische Studie. Mém. Acad. Sci. St. Pétersb., 1889, 7. sér. **36**, no. 14, 1–52. 2 pls. & fig. 1889.1

—— Ueber fossile Fische vom oberen Jenissei. Mém. Acad. Sci. St. Pétersb., 1889, 7. sér. **36**, no. 13. 17 p. 2 pls. 1889.2

—— Ueber unter-silurische Fische. Mél. Géol. & Paléont. Acad. Sci. St. Pétersb., 1889, **1**, 7–15. pl. 1889.3

—— Die Jura-Fische von Ust-Balei in Ost-Sibirien. Mém. Acad. Sci. St. Pétersb., 1890, 7. sér. **38**, no. 1. 15 p. 2 pls. 1890.1

—— Ueber devonische Fische vom oberen Jenissei nebst Bemerkungen über die Wirbelsäule devonischer Ganoiden. Bull. Acad. Sci. St. Pétersb., 1890, 2. sér. 1, 393–410. — Mél. Géol. & Paléont. Acad. Sci. St. Pétersb., 1892, **1**, 17–34. pl. 1890.2

—— Ueber Pterichthys. Verh. Russ. Miner. Ges. St. Petersb., 1891, 2. ser. **28**, 292–316. pl. 1891.1

—— Holoptychius-Schuppen in Russland. Mél. Géol. & Paléont. Acad. Sci. St. Pétersb., 1892, **1**, 35–56. pl. 1892.1

—— Die obersilurischen Fische von Oesel. I. Thyestidæ und Tremataspidæ. Mém. Acad. Sci. St. Pétersb., 1892, 7. sér. **38**, no. 13. 88 p. 2 pls. 1892.2

—— Ueber einen mesozoischen Fisch von Altai (Lepidotus) Verh. Russ. Miner. Ges. St. Petersb., 1892, 2. ser. **29**. 10 p. pl. 1892.3

—— Die obersilurischen Fische von Oesel. II. Selachii, Dipnoi, Ganoidei, Pteraspidæ and Cephalaspidæ. Mém. Acad. Sci. St. Pétersb., 1893, 7. sér. **41**, no. 5. 124 p. 3 pls. 1893.1

—— Zur Kenntniss der Tremataspiden. Bull. Acad. Sci. St. Pétersb., 1893, 2. sér. **3**, 177–202. 2 pls. 1893.2

—— Metamerie am Primordial-Cranium paläozoischer Fische. Zool. Anz., 1894, **17**, 51–52. 1894.1

Thyestes and Tremataspis.

—— Zur Kenntniss der Tremataspiden. Nachtrag zu den Untersuchungen über " Die obersilurischen Fische von Oesel." Bull. Acad. Sci. St. Pétersb., 1894, 2. sér. **4**, 201–225. 2 pls. 1894.2

Review by Dames in Neues Jahrb. Mineral., 1899, **1**, 171.

—— Beitrag zur Kenntniss der Gattung Ptyctodus. Verh. Russ. Miner. Ges. St. Petersb., 1895, 2. ser. **33**, 1–16. pl. 1895.1

—— Die Segmentirung am Primordial-cranium der obersilurischen Thyestiden. Verh. Russ. Miner. Ges. St. Petersb., 1895, 2. ser. **33**, 17–64. pl. 1895.2

—— Beiträge zur Classification der palæozoischen Fische. Sitzber. Böhmisch. Ges. Wiss., Prag, 1896, no. 37. 33 p. 8 figs. 1896.1

—— Weitere Mittheilungen über die Gattung Thyestes. Bull. Acad. Sci. St. Pétersb., 1896, 5. ser. **4**, 223–235. pl. 1896.2

—— Bau der obersilurischen Dipnoer-Zähne. Sitzber. Böhmisch. Ges. Wiss., Prag, 1899, no. 11. 18 p. 11 figs. 1899.1

—— Die devonischen Fische von Timan in Russland. Sitzber. Böhmisch. Ges. Wiss., Prag, 1900, no. 8. 77 p. 45 figs. 1900.1

—— Ueber Parietalorgane und Paraphysen. Sitzber. Böhmisch. Ges. Wiss., Prag, 1900, no. 33. 15 p. 6 figs. 1900.2

—— Beiträge zur Anatomie und Histologie der Psammosteiden. Sitzber. Böhmisch. Ges. Wiss., Prag, 1901, no. 16. 31 p. 2 pls. & 3 figs. 1901.1

Rohon, *Joseph Victor,* & **Zittel,** *Karl A. von.* *See* **Zittel** & **Rohon.**

Rohrbacher, *L.* Vom Stichling und seiner Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 326–328. fig. 1915.1

Rolland, *Eugène* [1846–1909] Faune populaire de la France. Paris, 1881. 8°. 1881.1

Rolland, *Georges François Joseph* [1852 —] Sur les poissons, crabes et mollusques vivant, rejetés par les puits artésiens jaillissants de l'Oued Rir (Sahara de la province de Constantine) C. R. Acad. Sci. Paris, 1881, **93**, 1090–1093. 1881.1

—— Phénomène des animaux rejetés vivants par les puits jaillissants de l'Oued Rir (Bas Sahara Algérien) C. R. Assoc. Franç. Avanc. Sci., 23. sess., 1895, 656–672. 1895.1

Rolle, *Wilhelm.* Die Zucht von exotischen Zierfischen. Allgem. Fischerei Zeitg., 1907, 32. Jahrg., 388–390. 1907.1

—— *Mollienisia latipinna.* Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 246. 1910.1

Rolleston, *George* [1829–1881] Forms of animal life, being outlines of zoological classification based upon anatomical investigation. Oxford, 1870. clxviii, 268 p. 12 pls. 1870.1

—— Forms of animal life, a manual of comparative anatomy with descriptions of selected types. 2. edition, revised and enlarged by W. Hatchett Jackson. Oxford, 1888. xxxii, 931 p. illust. 8°. 1888.1

Class Pisces, p. 409–437.

Rollett, *Alexander* [1834–1903] Ueber elektrische Fische. Mitth. Naturw. Ver. Steiermark., 1872, 45–68. 1872.1

—— Ueber die Flossenmuskeln des Seepferdchens (*Hippocampus antiquorum*) und über Muskelstructur in Allgemeinen. Arch. Mikr. Anat., 1888, **32**, 233–266. 2 pls. 1888.1

Rollier, *Henri Louis* [1859 —] La poche sidérolithique du Fuet (Jura bernois) contient un lambeau de néoco-

Rollier, *H. L.*
mien fossilifère. Bull. Soc. Sci. Nat. Neuchâtel, 1904, **32**, 147–153. fig. 1904.1

Dentition of *Pycnodus cylindricus.*

—— Nouvelles études sur les terrains tertiaires et quaternaires du Haut-Jura. Actes Soc. Jurass. Emul., 1912, 2. sér. **17**, 85–129. 7 pls. 1912.1

Rollinat, *Raymond.* Reptiles nuisibles aux poissons. Eleveur, Paris, 1902, **18**, 20–22. fig. 1902.1

—— Observations sur le poisson-chat ou amiure nébuleux (*Amiurus nebulosus* le Sueur) Bull. Soc. Acclim. Paris, 1910, **57**, 13–20. 1910.1

—— Sur la destruction du saumon commun (*Salmo salar* Linné) dans le bassin de la Loire. Bull. Soc. Acclim. Paris, 1913, **60**, 50–61. 1913.1

Rollinat, *Raymond,* & **Martin,** *R.* *See* **Martin & Rollinat.**

Rolph, *W.* Mittheilungen über den Bau der Chorda des Amphioxus. Sitzber. Naturf. Ges. Leipzig, 1875, 2. Jahrg., 50–53. 1875.1

—— Die sogenannten Nieren des Amphioxus und das Ligamentum denticulatum (Joh. Müller) des Kiemenkorbes. Sitzber. Naturf. Ges. Leipzig, 1875, 2. Jahrg., 85–87. 1875.2

—— Untersuchungen über den Bau des *Amphioxus lanceolatus.* Sitzber. Naturf. Ges. Leipzig, 1875, 2. Jahrg., 9–34. 4 figs.—Morph. Jahrb., 1876, **2**, 86–164. 3 pls. Also separate; Leipzig, 1876. 80 p. 3 pls. 8°. 1875.3

Rom, *N. C.* Vinterfiskeriet ved Lofoten. Kjøbenhavn, 1868. 24 p. 8°. 1868.1

Romanes, *George John* [1848–1894] Permanent variation of colour in fish. Nature, 1873, **8**, 101. 1873.1

—— Fish [intelligence] (In his Animal intelligence, p. 241–253. New York & London, 1883) 1883.1

Romano, *Anacleto.* Sopra le fibre commensurali del proencefalo dei selacei. Monit. Zool. Ital., Firenze, 1897, **8**, 206–212. fig. 1897.1

—— Sopra i centri nervosi elettrici dei selacei. Monit. Zool. Ital., Firenze, 1899, **10**, iii–xxiii. 2 pls. 1899.1

—— Intorno alla natura ed alle ragioni del colorito giallo dei centri nervosi elettrici. Anat. Anz., 1900, **17**, 176–183. fig. 1900.1

—— A proposito di una nuova sostanza nel nucleo delle cellule nervose elettriche. Anat. Anz., 1902, **21**, 461–467. 1902.1

—— Per la istogenesi dei centri nervosi elettrici. Ricerche e considerazioni preliminari. Anat. Anz., 1902, **20**, 513–535. 1902.2

Romanovskiĭ, *Ghennadi Danilovich* Ueber eine neue Gattung versteinerte Fisch-Zähne. Bull. Soc. Imp. Nat. Moscou, 1853, **26**, pt. 1, 405–409. pl. 1853.1

Dicrenodus okensi, n. g. et n. sp.

—— Ueber die Verschiedenheit der beiden Arten: *Chilodus tuberosus* Gieb. und *Dicrenodus okensis* Rom. Bull. Soc. Imp. Nat. Moscou, 1857, **30**, pt. 1, 290–295. 2 figs. 1857.1

—— Description de quelques restes de poissons fossiles trouvés dans le calcaire carbonifère du gouvernement de Toula. Bull. Soc. Imp. Nat. Moscou, 1864, **37**, pt. 2, 157–170. 2 pls. 1864.1

—— Beschreibung fossiler Fischreste aus dem Kohlenkalk des Gouvernement Tula. Neues Jahrb. Mineral., 1866, 247–248. 1866.1

Elasmobranchs, chimæroids, ganoids and ichthyodorulites.

—— Notiz über den fossilen Fisch *Lyrolepis caucasicus* Rom. [Text in Russian] Verh. Russ. Miner. Ges. St. Petersb., 1904, 2. ser. **42**, 1–8. pl. & 8 figs. 1904.1

Romanovsky, *Hennadius.* *See* **Romanovskiĭ,** *Ghennadi Danilovich.*

Romans, *B.* A concise natural history of east and west Florida, containing an account of natural produce of all southern parts of British America in the three kingdoms of nature, particularly the animal and vegetable. New York, 1776. 4 pls. 8°. 1776.1

Romeis, *B.* Zur Frage der Schlafstellungen der Fische. Biol. Centralbl., 1911, **31**, 183–185. 1911.1

Ronalds, *Alfred.* The fly-fisher's entomology. Illustrated by coloured representations of the natural and artificial insect, and accompanied by a few observations and instructions relative to trout and grayling fishing. London, 1836. 19 pls. 1836.1

Ronchetti-Monteviti, *G.*, **Bellotti,** *C.*, & **Mazzarelli,** *G.* *See* **Bellotti, Ronchetti-Monteviti** & **Mazzarelli.**

Rondonneau, —— Code de la chasse et de la pêche, contre les lois, les arrêtes, etc., depuis 1789 jusqu'à ce jour. Paris, 1810. 8°. 1810.1

Roney, *H. B.* A new idea on fish propagation. Chicago Field, 1879, **11**, 52. 1879.1

Rooper, *George.* Autobiography of the late *Salmo salar*, Esq. Comprising a narrative of the life, personal adventures and death of a Tweed salmon. London, 1867. 8°. 1867.1

—— The natural history of the salmon. Trans. Hertfordshire Nat. Hist. Soc., 1896, **8**, 17–21. 1896.1

Roosen, *A. R.* Die Methode des Herrn Eckart in München zu längerer Aufbewahrung von Fischen. Circul. Deutsch. Fischerei Ver. 1878 (1879), no. 2, 70–71. 1879.1

Roosendaal, *A. M. van.* De lajanvisscherij in de Java-zee en in Straat Madœra [Die Lajang-Fischerei im Java-Meere und in der Madura-Strasse] Meded. Vissch. Stat., Batavia, 1910, **5**, 21–41. 1910.1

—— Verslag der verrichtingen van het ondersoekingsvaarting voor de visscherij "Gier" over het jaar 1909. Meded. Vissch. Stat., Batavia, 1910, **5**, 1–20. 1910.2

Roosendaal, *A. M. van,* & **Kampen,** *P. N. van.* Verslag van de verrichtingen van het ondersoekingsvaarting "Gier" gedurende het tijdvak 2 September 1907 (datum van indienststelling), tot Uo 1908. Meded. Vissch. Stat., Batavia, 1909, **4**, 1–36. 3 maps. 1909.1

Roosevelt, *Robert Barnwell.* Game fish of the northern states of America and British provinces. By Barnwell [*i.e.* Roosevelt] New York, 1862. 324 p. 8°. 1862.1

—— The game fish of the northern states and British provinces. With an account of the salmon and sea-trout fishing of Canada and New Brunswick, with simple directions for tying artificial flies, etc. New York, 1865. 324 p. 12°. 1865.1

—— Superior fishing, or the striped bass, trout and black bass of the northern states. Embracing full directions for dressing artificial flies with the feathers of American birds, an account of a sporting visit to lake Superior, etc. New York, 1865. 304 p. pls. 12°. 1865.2

—— Communication [on the condition of fish-culture in the northern states east of Ohio] . . . to the Hon. Samuel B. Ruggles, delegate of the United States, to the Seventh International Statistical Congress, to be held at the Hague, in September, 1869. [n. pl.] 1869. 6 p. 8°. 1869.1

—— Aperçu général de l'état actuel de la pisciculture dans tous les états du nord de l'Amérique. C. R. 7. sess. Congr. Intern. Statis. La Haye, 1870, pt. 2, 355–362. 1870.1

—— Aquæculture compared in importance with agriculture (In 17. Ann. Rept. Secretary Maine Board Agriculture for the year 1872, p. 220–240. Augusta, 1873) 1873.1

—— The Fish Commission and New York shad. Forest & Stream, 1875, **4**, 390. 1875.1

—— New discoveries respecting eels. Forest & Stream, 1877, **8**, 267. 1877.1

—— The advance of American fish culture. Trans. Amer. Fisheries Soc. 1877 (1878), 10–17. 1878.1

—— The geographical distribution of fish in the United States. Journ. Amer. Geogr. Soc., 1878, **7**, 93–100. 1878.2

—— Habits of eels. Forest & Stream, 1878, **10**, 358. 1878.3

—— More about the movement of eels. Forest & Stream, 1878, **10**, 462. 1878.4

—— On early work of the New York Fish Commission. Trans. Amer. Fisheries Soc. 1877 (1878), 45–48. 1878.5

—— Reproductive power of eels. Trans. Amer. Fisheries Soc. 1878 (1879), 90–98. — Chicago Field, 1879, **11**, 116. 1879.1

—— Trout and bass farming. Scient. Amer., 1879, **40**, 217. 1879.2

—— Water farming. Mr. Robert B. Roosevelt's talk on fish-culture. Chicago Field, 1879, **11**, 180. 1879.3

—— Hybrid fish. Scient. Amer., 1880, **42**, 263. 1880.1

Roosevelt, *R. B.*

—— Reproductive habits of eels. Trans. Amer. Fisheries Soc. 1879 (1880), 32–44. — Forest & Stream, 1879, **12**, 145. 1880.2

—— Hybrids. Trans. Amer. Fisheries Soc. 1880 (1881), 8–13. 1881.1

—— The game fish of the northern states and British provinces. With an account of the salmon and sea-trout fishing of Canada and New Brunswick, together with simple directions for tying artificial flies, etc. 3. ed. New York, 1884. 324 p. 12°. 1884.1

—— Superior fishing, or the striped bass, trout, black bass and blue-fish of the northern states. Embracing full directions for dressing artificial flies with the feathers of American birds, an account of a sporting visit to lake Superior, etc. 2. ed. New York, 1884. 12°. 1884.2

An enlarged edition of the work first published in 1865.

Roosevelt, *Robert Barnwell,* & **Green,** *Seth.* Fish hatching and fish catching. Rochester, N. Y., 1879. 245 p. 8°. 1879.1

—— The same. New York, 1885. 1885.1

Roosevelt, *Theodore* [1858 —] African game trails. An account of the wanderings of an American hunter-naturalist. New York, 1910. illust. 8°. 1910.1

—— Through the Brazilian wilderness; a booklover's holiday in the open. New York, 1914. illust. 8°. 1914.1

Fishing equipment, p. 273, 364. Flying-fish, p. 285. Catfish, p. 311.

Roper, *Freeman Clarke Samuel* [1819–1896] On the occurrence of *Beania mirabilis* and *Labrus mixtus* at Eastbourne, Sussex. Ann. Mag. Nat. Hist., 1869, 4. ser. **4**, 293–294. 1869.1

—— *Capros aper,* or boar-fish [at Eastbourne] Sci. Gossip, 1879, **15**, 161. 1879.1

—— On the occurrence of *Capros aper,* the boar fish, at Eastbourne. 11. Ann. Rept. Eastbourne Nat. Hist. Soc. 1878 (1879) pl. 1879.2

Roques, *E. G.* Répartition des chromoblastes dans le péritoine de quelques cyprinidés. C. R. Assoc. Anat., Nancy, 6. sess., 1904, 169–171. — Bull. Stat. Piscicult., Toulouse-Paris, 1905, **2**, 27–30. 1904.1

Roques, *Lucien.* Considérations sur la technique employée à l'étude du chimisme respiratoire des poissons et description d'un appareil simplifié. Bull. Stat. Piscicult., Toulouse-Paris, 1906, **3**, 1–20. 1906.1

—— Sur la respiration des poissons et la technique employée à son étude. C. R. Mém. Soc. Biol. Paris, 1906, **60**, 287–289. 1906.2

Roquete, *Chagas,* & **Almeida,** *F.* *See* **Almeida** & **Roquete.**

Rosa, *Daniele.* Die progressive Reduktion der Variabilität und ihre Beziehungen zum Aussterben und zur Entstehung der Arten. Jena, 1903. 105 p. 8°. 1903.1

The Italian original appeared in 1899.

Rosberg, *Johan Evert.* Nordöstra Sodankylä. Berättelse, afgifven inför geografiska föreningen den 24 oktober 1890. Geogr. Fören. Tidskr., 1891, **3**, no. 1–2, 1–53. 1891.1

—— Bidrag till kännedom om fiskarnas geografiska utbredning i ryska Karelen. Meddel. Soc. Fauna & Flora Fenn., 1892, **17**, 173–185. pl. Also separate; Helsingfors, 1892. 8°. 1892.1

—— Bref från Kyrkslätt. Fiskeritidskr. Finl., 1892, **1**, 101–103. 1892.2

—— Fisket i Sääksmäki socken. Geogr. Fören. Tidskr., 1899, **11**, 145–146. 1899.1

—— Kalastus Sääksmäen pitäjässä. Suomen Kalastus Lehti, 1899, **8**, 145–146. 1899.2

—— Klostret solovetskij i Hvita hafvet. Geogr. Fören. Tidskr., 1899, **11**, no. 1, 37–55. 1899.3

—— Kyrkslätt socken, dess natur, utveckling och historia. Del I, Naturen. Helsingfors, 1900. 119 p. 8°. 1900.1

—— Sääksmäki socken. Utkast till en geografisk sockenbeskrifning. Meddel. Geogr. Fören., 1900, **5**, no. 6. 86 p. pl. 1900.2

—— Sällsynt fiskfynd [Seltener Fisch, *Scomber scombrus*] Fiskeritidskr. Finl., 1910, **19**, 61. 1910.1

Roschier, —— Svar å Kejserl. Finska hushållningssällskapets, jemte memorial af den 7 september 1822 framställda frågor i åtskilliga ämnen rörande den allmänna och enskilta Landthushållningen, i Klemis. Finsk. Hushållningssällsk., 1826, 2. ser. **8**, 57–75. 1826.1

Rose, *Caleb Burrell* [1790–1872] On the discovery of parasitic borings in fossil fish scales. Trans. Microsc. Soc., 1855, **3**, 7–9. 1855.1

—— On the occurrence of cycloid fish scales, etc., in the Oolitic formation. Geol. Mag., 1864, **1**, 92–94. 1864.1

Rose, *C. W.* Notice of a monstrosity in a whiting [*Gadus merlangus*] Rept. Brit. Assoc. Adv. Sci., 33. meet., 1863, Notices, 106. 1863.1

Rose, *J.* An essay upon the British fisheries; wherein the errors of the system on which they are at present conducted is pointed out, a better system is recommended, and sundry experiments . . . are proposed. Edinburgh, 1785. 8°. 1785.1

Rose, *V.* Chemische Untersuchung des Ichthyophthalm. Neue Allgem. Journ. Chem., 1805, **5**. 1805.1

Roselli, *G.* Tatti per servire alla storia pisicologica del Cane. Bologna, 1823. 8°. 1823.1

Rosén, *Nils.* Beitrag zur Frage, welches Keimblatt bildet das Skelett der Wirbeltiere? Acta Univ. Lund., 1910, n. s. **6**, pt. 2, no. 7. 26 p. pl. & 16 figs. 1910.1

—— Contributions to the fauna of the Bahamas. 1–3. Acta Univ. Lund., 1911, n. s. **7**, pt. 2, no. 5. 72 p. pl. maps. 1911.1

—— Studies on the plectognaths. Ark. Zool. Stockholm, 1912–13. 1912.1

i. The blood-vascular system. Ark. Zool., Stockholm, 1912, **7**, no. 25, 1–24. 2 pls. & 10 figs.
ii. The air-sac, with notes on other parts of the intestines. *Ibid.*, 1912, **7**, no. 30. 23 p. 2 pls. & 10 figs.
iii. The integument. *Ibid.*, 1913, **8**, no. 10, 1–29. 5 pls.
iv. The body muscles. *Ibid.*, 1913, **8**, no. 18, 1–14. 5 pls.

—— Wie wachsen die Ktenoidschuppen? Arkiv Zool., Stockholm, 1915, **9**, no. 20. 6 p. pl. & figs. 1915.1

Rosenberg, *Albert.* Some experiments in the propagation of rainbow trout. Trans. Amer. Fisheries Soc. 1906 (1907), 87–89. 1907.1

—— Experience in abating disease among brook trout. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bureau Fisheries 1908 (1910), **28**, pt. 2, 941–945. 1910.1

Rosenberg, *Alexander.* Untersuchungen über die Entwicklung der Teleostierniere. Inaug. Dissert. Dorpat, 1867. 77 p. pl. 1867.1

Rosenberg, *C. B. Hermann von* [1817–1888] Reis naar de Zuidoostereilanden, gedaan in 1865. 's Gravenhage, 1867. 8°. 1867.1

List of 250 species of fishes.

Rosenberg, *Emil Woldemar* [1842 —] Untersuchungen über die Occipitalregion des Cranium und den proximalen Theil der Wirbelsäule einiger Selachier (In Festschrift zu F. H. Bidder's Doctorjubilæum, Dorpat, 1884. 26 p. 2 pls.) 1884.1

—— Ueber das Kopfskelet einiger Selachier. Sitzber. Naturf. Ges. Dorpat, 1887, **8**, 31–34. 1887.1

Rosendal, *Paul.* Om fiskeriförhållandena i letala socken. Fiskeritidskr. Finl., 1893, **2**, 33–36. 1893.1

Rosenfeld, *Georg.* Stüdien über das Fett der Meeresorganismen. Wiss. Meeresuntersuch. Keil (Abth. Helgoland), 1912, **5**, 57–83. 1912.1

Rosenhauer, *Wilhelm Gottlob* [1813–1881] Die Thiere Andalusiens, nebst Beschreibung von 249 neuen Arten. Erlangen, 1856. 3 pls. 8°. 1856.1

—— Ueber die in der Umgegend von Erlangen vorkommenden Fische. Wiss. Mitth. Phys. Med. Soc. Erlangen, 1858, **1**, 165–168. 1858.1

Rosenthal, *Friedrich Christian.* Ueber das Skelett der Fische. Arch. Physiol., 1811, **10**, 340–358. 1811.1

—— Zergliederung des Fischauges. Arch. Physiol., 1811, **10**, 393–414. 1811.2

—— Ichthyotomische Tafeln. Berlin, 1812–25. 4°. 1812.1

The same. 2. ed. Berlin, 1839. fol.

—— Ueber die Blinddärme im Schwertfische. Zeitschr. Physiol. (Tiedemann), 1824, **1**, 335–337. 1824.1

—— Ueber die Structur der Kiemen. Verh. Ges. Naturf. Freunde Berlin, 1839, **1**, 1–4. 1839.1

Rosmini, *Olga.* Ricerche intorno alla variazone del *Petromyzon planeri* Bloch. Boll. Mus. Zool. Torino, 1901, **16**, no. 390. 29 p. 1901.1

Rosny, *Léon Louis Luciende* [1837 —] Les documents japonais des bibliothèques de Londres et d'Oxford. Paris, 1861. 23 p. 8°. 1861.1

Ross, *F. W. L.* Description of Müller's top-knot (*Rhombus hirtus* Müll.) Zoologist, 1843, **1**, 106–108. 1843.1

Ross, (*Sir*) *James Clark* [1800–1862] Zoology of the arctic regions [fishes] (In Parry, Sir W. E. Journal of a third voyage for the discovery of a northwest passage performed in 1824–25. Appendix. London, 1826. 8°) 1826.1

—— Zoology of the arctic regions (In Parry, Sir W. E. Narrative of an attempt to reach the north pole in . . . 1827. Appendix. London, 1828. 8°) 1828.1

Ross, (*Sir*) *John* [1777–1856] Narrative of a second voyage in search of a northwest passage, and of a residence in the arctic regions during 1829–33, etc. 2 vols. London, 1835. illust. 4°. 1835.1

Appendix:
Zoology [*i. e.* Mammals, birds and fishes] by James C. Ross.
Salmones, by J. Richardson.

Ross, *John.* Curing and preserving fish in Scotland and its islands (In Fish and Fisheries, edited by David Herbert, p. 106–129. Edinburgh & London, 1883) 1883.1

Rossati, *Guido.* Economic conditions of the fisheries in Italy. Proc. 4. Intern. Fish. Congr. Washington Bull. Bureau Fisheries 1908 (1910), **28**, pt. 1, 323–332. 1910.1

Rossi, *Umberto.* Sopra i lobe laterali della ipofisi. I. Pesci (selaci) Arch. Ital. Anat. Embriol., Firenze, 1903, **1**, 362–391. 5 pls. 1903.1

Rost, *Günther.* *Barbus vittatus* Day. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 947–948. 1913.1

—— *Capoëta damascina* Cuv. & Val. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 850–852. fig. 1913.2

—— *Danio rerio* Ham. Buch. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 264–266. fig. 1913.3

—— Der getupfte *Xiphophorus rachovii* Regan. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 174–179. 10 figs. 1913.4

—— Warum verlassen die Rivulusarten zeitweise das Wasser? Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 642–646. 4 figs. 1913.5

—— Einheimische Fische: der Barsch, *Perca fluviatilis* L. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 317. fig. 1914.1

—— Einheimische Fische: Hecht. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 284–285. fig. 1914.2

—— Einheimische Fische: Schlammbeisser, Steinbeisser, Schmerle. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 8–10. 2 figs. 1914.3

—— Die erfolgreiche Zucht der lebendgebärenden Zahnkarpfen. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 24–26. 1914.4

—— *Girardinus formosus* Ag. (*Heterandria formosa* Ag.) Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 106–107. fig. 1914.5

Rosted, *E.* Om haakjaerringen. Angaende maaden og tiden den fanges oghvorledes man benytter sig af den. Det. Norske Vid. Selskabs Skrifter, 1788, Nye Samling, **2**, 203–212. 4°. 1788.1

Roszmazler, *E. A.* Das Süsswasser-Aquarium; eine Anleitung zur Herstellung und Pflege desselben. Zweite Auflage, überarbeitet von A. E. Brehm. Leipzig, 1869. pl. & 53 figs. 8°. 1869.1

—— Het zoetwater-aquarium; naar het Hoogd. voor Nederland bewerkt door Joh. F. en H. P. Snelleman. Leiden [1872] 8°. 1872.1

Roth, —— Der Kehldeckel und die Stimmritze im Embryo, nebst einigen Bemerkungen über die Entwicklung der Schleimdrusen. Mitth. Embryol. Instit. Univ. Wien, 1877, **1**, 2. Heft. 1877.1

Roth, *Wilhelm.* Beiträge zur Kenntniss der parasitären Fischkrankheiten. VI. Die Plötze (*Leuciscus rutilus*) als Veranlassung zur Entstehung des Leberkrebses beim Menschen. Natur u. Haus, 1904, 13. Jahrg., 93–94. 1904.1

—— Doppelatmer. Eine vergleichend-anatomische Skizze mit besonderer Berücksichtigung der Ampullarie. Natur u. Haus, 1905, 13. Jahrg., 200–204. fig. 1905.1

—— Doppelte Regeneration eines Bartfadens bei einem Panzerwelse. Blätt. Aquar.-Terrar. Kunde, 1905, 16. Jahrg., 408–410. 1905.2

—— Das Schaumnestproblem. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 218–220; 297–300. 1909.1

—— Ueber das gleichzeitige Vorkommen verschiedener Aussenschmarotzer auf einem und demselben Fisch. Nebst einer kurzen Mitteilung über einen bisher nicht beschriebenen Fischparasiten. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 571–572; 587–590; 601–603. 1909.2

—— Ueber Rundwurm im Darm der Ellritze. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 673–675. 1909.3

—— Aus dem Sinnesleben der Fische. I. Hören die Fische? Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 430–432. 1910.1

—— Das Kochsalz in der Aquarienliebhaberei. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 555–556; 570–571; 584–586; 603–604; 615–616; 630–631. 1910.2

—— Beiträge zur Kenntniss der Strukturverhältnisse des Selachier-Knorpels. Morph. Jahrb., 1911, **42**, 485–555. 4 pls. & 18 figs. 1911.1

—— Die Krankheiten der Aquarienfische und ihre Bekämpfung. Stuttgart, 1912. 67 figs. 1912.1

Rottra, *F.* Förderung der Fischzucht. Wochenbl. Landw. Ver. Baden, 1877, 145–156. 1877.1

Rouault, *Marie* [— 1881] Note sur les vertébrés fossiles des terrains sedimentaires de l'ouest de la France. C. R. Acad. Sci. Paris, 1858, **47**, 99–103. 1858.1

Roudnew, *Wladimir Ghavilovich. See* **Rudnev,** *Vladimir G.*

Rouffaer, *G. P.*, & **Muller,** *W. C.* Eerste proeve van eene Rumphius-Bibliographie. Rumphius Gedenkboek. Kolon. Mus. Haarlem, 1902, 165–219. 1902.1

Rougane de Chanteloup, —— Pisciculture dans le département du Puy-de-Dôme. Journ. Agricult. Pratique, 1875, 39. année, **1**, 150–151. 1875.1

Rougemont, *Philippe Albert de* [1850–1881] Observations sur les œufs de perche. Bull. Soc. Sci. Nat. Neuchâtel, 1873, **9**, 216–217. 1873.1

—— Sur l'anatomie du *Cobitis* [*Misgurnus*] *fossilis.* Verh. Schweiz. Naturf. Ges. Chur 1874 (1875), **57**, 51. 1875.1

—— Note sur le *Cobitis* [*Misgurnus*] *fossilis.* Bull. Soc. Sci. Nat. Neuchâtel, 1876, **10**, 81–89. 1876.1

Rouget, *Charles.* Résultat de ses observations sur la terminaison des nerfs dans l'organe électrique de la torpille. Act. Soc. Helvét. Sci. Nat. Genève, 1865, **49**, 93–94. 1865.1

—— Asphyxie du poisson dans les eaux marécageuses. Bull. Soc. Agricult. Sci. Arts Poligny, 1868, 9. année, 288. 1868.1

—— Note sur l'appareil électrique de la torpille. Bull. Assoc. Sci. France 1876–77 (1876), **19**, 221–222. 1876.1

—— Sur les terminaisons nerveuses dans l'appareil électrique de la torpille. C. R. Acad. Sci. Paris, 1876, **82**, 917–919. *Ibid.*, **83**, 803–805; 830–831. *Ibid.*, 1877, **85**, 485–487. — Ann. Mag. Nat. Hist., 1877, 4. ser. **20**, 448. — Journ. Micrograph, 1878, 2. année, 69–70. 1876.2

—— Sur la transformation des forces dans les plaques électriques de la torpille et dans les plaques motrices des muscles volontaires. Le Naturaliste, 1879–81, **1**, 83. 1879.1

—— Sur l'organe électrique de la torpille. C. R. Assoc. Franç. Avanc. Sci., 8. sess., 1879 (1880), 753. 1880.1

Rougier de la Bergerie, —— Manuel des étangs, ou traité de l'art de les construire. Paris, 1819. 8°. 1819.1

Rougon, *J. C.* De la pisciculture dans ses rapports avec l'alimentation publique. Paris, 1861. 38 p. 4°. 1861.1

Rouillier, *C.*, **Usow,** *S.*, & **Borsenkow,** *J. See* **Borsenkow, Usow & Rouillier.**

Roule, *Louis* [1861 —] Les poissons d'eau douce de la Corse. Bull. Soc. Hist. Nat. Toulouse, 1900, **33**, 278–279. 1900.1

—— Les poissons et les pêches sur le littoral de la Corse. C. R. Assoc.

Roule, *L.*
Franç. Avanc. Sci., 28. sess., 1900, pt. 2, 497–498. 1900.2

—— *Atherina riqueti*, nov. sp., nouvelle espèce d'athérine vivant dans les eaux douces. Zool. Anz., 1902, **25**, 262–267. 4 figs. — Feuille Jeunes Natural., Paris, 4. sér. **32**, 172–173. fig. — Nature, Paris, **30**, pt. 2, 56–58. 3 figs. 1902.1

—— La faune des poissons actuellement connus qui habitent les côtes de la Corse. Mém. Soc. Zool. France, 1902, **15**, 169–194. 1902.2

172 species of elasmobranchs and teleosts are enumerated.

—— L'hermaphrodisme normal des poissons. C. R. Acad. Sci. Paris, 1902, **135**, 1355–1357. 1902.3

—— Les poissons du littoral de la Corse; comparaison de cette faune avec celles des autres localités du bassin occidental de la Méditerranée. C. R. Assoc. Franç. Avanc. Sci., 30. sess., 1902, 683–684. 1902.4

—— Sur les poissons du genre Chondrostome dans les eaux douces de la France. C. R. Acad. Sci. Paris, 1902, **135**, 980–982. 1902.5

—— L'acclimatation des poissons exotiques. Mém. Acad. Sci. Toulouse, 1903, 10. sér. **4**, 113–122. 1903.1

—— La piscifacture. Mém. Acad. Sci. Toulouse, 1903, 10. sér. **3**, 390–402. 1903.2

—— Sur l'evolution subie par les poissons du genre Atherina dans les eaux douces et saumâtres du midi de la France. C. R. Acad. Sci. Paris, 1903, **137**, 1276–1277. 1903.3

—— Sur les poissons de la famille des athérinidés dans l'Europe occidentale et sur la filiation de leurs espèces. C. R. Acad. Sci. Paris, 1903, **136**, 824–826. 1903.4

—— La faune ichthyologique des Pyrénées et du sud-ouest de la France. Bull. Assoc. Franç. Avanc. Sci., 1904, 267. 1904.1

—— L'installation et l'entretien des viviers à cyprinidés. Bull. Stat. Piscicult., Toulouse-Paris, 1904, no. 1. 1904.2

—— Notice sur l'historique, l'état actuel, et le rôle de la station de pisciculture et d'hydrobiologie de l'université de Toulouse. Bull. Stat. Piscicult., Toulouse-Paris, 1904, no. 1. 1904.3

—— La station de pisciculture et d'hydrobiologie de l'université de Toulouse. C. R. Assoc. Franç. Avanc. Sci., 32. sess., 1904, pt. 2, 789–790. 1904.4

—— La faune ichthyologique des Pyrénées françaises et du sud-ouest de la France. Bull. Stat. Piscicult., Toulouse-Paris, 1905, no. 2, 30–39. 1905.1

—— Impianto e trattamento di un vivaio di ciprinidi. Acquicolt. Lombarda, Milano, 1905, **7**, 19–25. 1905.2

—— Le régime biologique et la pêche de l'esturgeon (*Acipenser sturio* L.) dans le midi de la France. Bull. Stat. Piscicult., Toulouse-Paris, 1905, no. 2, 59–62. 1905.3

—— Le saumon dans le midi de la France. Mém. Acad. Toulouse, 1906, 10. sér. **6**, 265–272. 1906.1

—— L'utilisation des viviers rustiques et l'elevage du goujon. Bull. Sté. Centr. Agricult. Garonne 1900 (1906) 1906.2

—— Notes ichthyologiques. Arch. Zool. Paris, 1907–08. 1907.1

i. Les scorpénidés de la Méditérranée. Arch. Zool. Paris, 1907, 4. sér. **6** (Notes & Revue), xiv–xxiii.

ii. Les triglidés de la Méditerranée; première note: systématique stricte. *Ibid.*, 1908, **9**, xvii–xxiv.

—— La notion du plancton et ses conséquences. Bull. Stat. Piscicult., Toulouse-Paris, 1908, 3–20. 1908.1

—— Les principes de la pisciculture; la notion du plankton et ses conséquences. Bull. Pop. Piscicult. Amél. Pêche, 1908, no. 3. 1908.2

—— Sur le développement de la notocorde chez les poissons osseux. C. R. Acad. Sci. Paris, 1908, **146**, 1423–1425. 1908.3

—— Les cartes de repeuplement. Bull. Pop. Piscicult. Amél. Pêche, 1909, no. 5. 1909.1

—— La condition générale des êtres aquatiques et l'aquiculture. Bull. Pop. Piscicult. Amél. Pêche, 1909, no. 6. 1909.2

—— Les leptocephalidés ou congéridés de la Méditerranée. Congr. Nat. Pêches Marit., Sables d'Oloune, 1909. 1909.3

—— Description d'un némichthyde méditerranéen (*Nemichthys scolopaceus* Rich.) Ann. Inst. Océanogr., Monaco, 1910, fasc. 6, p. 11. 1910.1

—— Notice préliminaire sur la description et l'identification d'une larve leptocéphalienne appartenant au type Oxystomus Raf. (Tilurus Köll.) Bull. Inst. Océanogr. Monaco, 1910, no. 171. 8 p. 1910.2

—— Les principes de la pisciculture. Revist. Chil. Hist. Nat., 1910, **14**, 207–226. 1910.3

—— Sur les poissons de la famille némichthyidés. C. R. Acad. Sci. Paris, 1910, **150**, 352–353. 1910.4

—— La chaire de zoologie des reptiles et poissons. Rev. Scient., 1911, 49. année, pt. 1, 161–171. 1911.1

—— Sur quelques larves des poissons apodes. C. R. Acad. Sci. Paris, 1911, **153**, 732–735. 1911.2

—— Sur quelques particularités de la faune antarctique, d'après la collection des poissons récemment recueillie par l'expédition française du "Pourquoi-Pas?" C. R. Acad. Sci. Paris, 1911, **153**, 80–81. 1911.3

—— La vie de l'anguille. Progrès, Septembre, 1911. 1911.4

—— La distribution géographique de certaines larves (tiluriennes) des poissons apodes. C. R. Assoc. Franç. Avanc. Sci., 41. sess., 1912, 413–415. 1912.1

—— Notice sur les sélaciens conservés dans les collections du Musée Océanographique. Bull. Inst. Océanogr. Monaco, 1912, no. 243. 36 p. 1912.2

—— Remarques concernant la biologie du saumone (*Salmo salar* L.) d'Europe. C. R. Mém. Soc. Biol. Paris, 1912, **72**, 758–759. 1912.3

—— Revue de zoologie (reptiles, batraciens, poissons) Rev. Gén. Sci. Pures Appliquées, 1912, no. 24, Dec. 30, 1912. 1912.4

—— Sur la répartition des poissons bathypélagiques dans l'océan Atlantique et la Méditerranée. C. R. Acad. Sci. Paris, 1912, **154**, 1656–1658. 1912.5

—— La vie des poissons dans les grandes profondeurs de la mer; conférence faite à l'Association Française pour l'Avancement des Sciences. Rev. Scient., Paris, 1912, **50**, 515–524. 1912.6

—— Contribution à l'étude de la biologie du saumon. C. R. Acad. Sci. Paris, 1913, **156**, 1561–1563. 1913.1

—— Description d'un genre nouveau et de deux espèces nouvelles de poissons antarctiques. Bull. Mus. Hist. Nat. Paris, 1913, 4–7. 1913.2

—— Deuxième expédition antarctique française. Poissons. Paris, 1913. 24 p. 4 pls. 1913.3

—— Etude sur les formes larvaires tiluriennes de poissons apodes. Ann. Inst. Océanogr. Monaco, 1913, 2. sér. **6**, 1–23. pl. 1913.4

—— Notice préliminaire sur *Grimaldichthys profundissimus*, nov. gen. nov. sp., poisson abyssal recueilli à 6035 mètres de profondeur dans l'océan Atlantique par S. A. S. le Prince de Monaco. Bull. Inst. Océanogr. Monaco, 1913, no. 261, 1–8. fig. 1913.5

—— Observations sur la migration reproductrice du thon commun (*Orcynus thynnus* L.) Bull. Mus. Hist. Nat. Paris, 1913, 422–423. 1913.6

—— Sur l'influence exercée par la fonction reproductrice sur les migrations des saumons de printemps et d'été. C. R. Acad. Sci. Paris, 1913, **157**, 1545–1547. 1913.7

—— Diagnoses préliminaires des larves de poissons apodes recueillies dans ses croisières par S. A. S. le Prince de Monaco. Bull. Inst. Océanogr. Monaco, 1914, no. 292. 11 p. 6 figs. 1914.1

—— Les poissons migrateurs. Rev. Scient. Ann., 1914, **52**, 289–296. 1914.2

—— Sur les conditions biologiques de la migration démontrée du saumon (*Salmo salar* L.) C. R. Soc. Biol. Paris, 1914, **76**, 838–839. 1914.3

—— Sur l'influence exercée sur la migration de montée du saumon (*Salmo salar* L.) par la proportion d'oxygène dissous dans l'eau des fleuves. C. R. Acad. Sci. Paris, 1914, **158**, 1364–1366. 1914.4

Branchiotropisme comme cause fondamentale de la migration.

—— Sur les phases larvaires et la métamorphose des poissons apodes appartenant à la famille des Nemichthydés. C. R. Acad. Sci. Paris, 1914, **158**, 352–354. 1914.5

—— Sur les poissons abyssaux appartenant à la famille des Eurypharyngidés. C. R. Acad. Sci. Paris, 1914, **158**, 1821–1823. 1914.6

Seul genre, Eurypharynx.

Roule, *L.*

—— Sur quelques particularités biologiques du barcommun (*Labrax labrax* L.) Bull. Mus. Hist. Nat. Paris, 1914, 110 [Ovaires] 1914.7

—— Traité raisonné de la pisciculture et des pêches. Paris, 1914. vii, 734 p. 300 figs. 8°. 1914.8

Part i. Les poissons dans la nature et dans leurs relations avec la pisciculture et les pêches.

Part ii. Les pêches et la pisciculture en mer. Chap. 8. La pêche côtière et les poissons des fonds littoraux. Chap. 9. Les poissons des grands fonds et leur pêche. Chap. 10. La pêche aux poissons migrateurs ou périodiques. Chap. 11. La pisciculture marine. Chap. 12. L'économie des pêches maritimes.

Part. iii. La pêche et la pisciculture dans les eaux douces. Chap. 14. Les poissons des eaux douces dans la nature. Chap. 15. La pêche en eau douce. Chap. 16. La pisciculture d'eau douce. Chap. 17. L' économie piscicole des eaux douces.

Review in Nature, 1915, **93**, 631–632.

—— Les migrations erratiques des poissons du genre Mugil [Recherche d'une température plus basse] C. R. Soc. Biol. Paris, 1915, **78**, 730–732. 1915.1

—— Sur de nouvelles recherches concernant la migration de montée des saumons. C. R. Acad. Sci. Paris, 1915, **161**, 707–709. 1915.2

Recherche par le poisson du milieu plus riche en oxygène dissous.

—— Sur les migrations des poissons de la famille des mugilidés. C. R. Acad. Sci. Paris, 1915, **161**, 537–539. 1915.3

—— Sur un nouveau genre de poissons apodes, et sur quelques particularités de la biologie de ces êtres. C. R. Acad. Sci. Paris, 1915, **160**, 283–284. 1915.4

Pseudophichthys latedorsalis, n. sp.

—— Sur les poissons abyssaux de la famille des brotulidés dans l'océan Atlantique nord. C. R. Acad. Sci. Paris, 1915, **161**, 56–58. 1915.5

Roule, *Louis,* & **Audigé,** *J.* Description des bassins d'alevinage intensif employés à la station de pisciculture et d'hydrobiologie de l'université de Toulouse. Bull. Stat. Piscicult., Toulouse-Paris, 1905, **2**, 53–59. 1905.1

—— Sur le rein des poissons osseux. C. R. Acad. Sci. Paris, 1908, **147**, 275–277. 1908.1

Roule, *Louis,* & **Caradaillac de Saint-Paul,** *G. del.* Les causes réelles du dépeuplement des cours d'eau, et les moyens d'y porter remède. Bull. Soc. Centr. Aquicult. Pêche, 1902, **14**. 1902.1

—— Les chevaines et les vaudoises du bassin de l'Adour. C. R. Assoc. Franç. Avanc. Sci., 1903, **31**, pt. 2, 731–733. 1903.1

—— Le repeuplement et la canalisation des cours d'eau. 2. Congr. du Sud-Ouest Navigable, Toulouse, 1903. 1903.2

—— La préservation du gibier de pêche et le droit à indemnité relatif aux barrages. Bull. Stat. Piscicult., Toulouse-Paris, 1905, no. 2. 1905.1

Roule, *Louis,* & **Despax,** *R.* Expédition antarctique française du "Pourquoi-Pas" dirigée par le Dr. J. B. Charcot (1908–1910) Note préliminaire sur les poissons antarctiques. Bull. Mus. Hist. Nat. Paris, 1911, 276–281. 1911.1

—— Larves tiluriennes de poissons recueillies par le "Thor." Bull. Mus. Hist. Nat. Paris, 1911, 403–407. 1911.2

Roulin, *François Désiré* [1797–1874] Description d'une pastinaque fluviatile [*Pastinaca humboldti*] du Meta. Ann. Sci. Nat. (*Zool.*), 1829, **16**, 104–107. pl. Extract in Bull. Sci. Nat. (Férussac), **16**, 464–466. — Isis (Oken), 1834, 1042. 1829.1

Roussel, *Joseph* [1848 —] La morue et l'huile de foie de morue. Inaug. Dissert. Paris, 1900. 114 p. pl. 8°. 1900.1

—— Tableau stratigraphique des Pyrénées. Bull. Serv. Carte Géol. France, 1904, **15**, no. 97. 119 p. 3 maps & 66 figs. 1904.1

Rouvière, ——, & **Ladreyt,** *F.* Sur certains stades du développement des hématies chez *Scyllium canicula*. C. R. Assoc. Franç. Avanc. Sci., 34. sess., 1906, 603–604. 1906.1

Roux (*Junior*), —— Des poissons vénéneux, à propos de la relation d'un empoissonement observé par le docteur Gasquel dans la Nouvelle-Calédonie. France Méd. Paris, 1860, **7**, 256; 258. — Monit. Sci. Méd. Pharm. Paris, 1860, 2. sér. **2**, 706–710. 1860.1

Rouyer, —— Considérations générales sur les causes de dépeuplement des cours d'eau et sur les moyens pratiques d'arriver à leur repeuplement. Mém. & C. R. Intern. Aquicult. Pêche, 1900, 72–85. 1900.1

Rover, (*pseudon.*) Fish-culture in Illinois. Forest & Stream, 1877, **9**, 247. 1877.1

—— Fish hatching in Wisconsin. Forest & Stream, 1878, **10**, 274. 1878.1

—— Whitefish culture in Wisconsin. Forest & Stream, 1878, **11**, 378. 1878.2

—— Fish-culture in . . . Wisconsin. Forest & Stream, 1879, **12**, 325. *Ibid.*, 1880, **14**, 26. 1879.1

Rowe, *Henry C.* Destroying a food-producing industry; is it a sound policy? Trans. Amer. Fisheries Soc., 1916, **46**, 62–68. 1916.1

Rowland, *William.* Die Anstalt für künstliche Fischzucht in Szomolány. Oesterr.-ungar. Fischerei Zeitg., 1880, 4; 12. 1880.1

Rowlands, *John.* *See* **Stanley,** (*Sir*) *Henry Morton.*

Rowntree, *Walter S.* On some points in the visceral anatomy of the Characinidæ, with an enquiry into the relations of the ductus pneumaticus in the Physostomi generally. Trans. Linn. Soc. London, 1903, 2. ser. **9**, 47–81. 2 pls. 1903.1

—— On the dentition of the characinoid genus Piabuca: a new generic character. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 240–243. 2 figs. 1906.1

Roy, *E.* La grande lamproie [*Petromyzon marinus*] de mer. Natural. Canad., 1906, **33**, 33–35. 1906.1

Rozet, *Claude Antoine* [1798–1858] Voyage dans la régence d'Alger, ou description du pays occupé par l'armée française en Afrique. 3 vols. Paris, 1833. map. 8°. 1833.1

Poissons marins et d'eau douce, vol. i, p. 226–230.

Rozhdestvensky, *E.*, & **Derjugin,** *K.* *See* **Derjugin & Rozhdestvensky.**

Rozwadowski, *Józef.* Nos poissons; la lotte, le glanis, la carpe, le carassin, la tanche, le goujon, le barbeau, le barbeau de Petegnyi, cyprin amer, Wyrozub [Text in Polish] Okóln. Krajow. Towarz. Ryback. Kraków, 1901, nos. 51–54; 85–95; 130–139; 163–168; 190–199; 266–270. 5 pls. 1901.1

—— Nos poissons; la rosse, le rotengle, la vaudoise, le meunier, le couteau, les espèces du genre Alburnus; l'aspe, la plestie; *Abramis brama*, *Abramis sapa* [Text in Polish] Okóln. Krajow. Towarz. Ryback. Kraków, 1902, 14–19; 53–59; 102–106; 195–200; 234–240. 5 pls. 1902.1

—— Nos poissons; *Abramis vimba*, *Chondrostoma nasus*, *Thymallus vexillifer*, Salmonidæ, *Salmo hucho*, *Salmo salar*, *Salmo fario.* Okóln. Krajow. Towarz. Ryback. Kraków, 1903, 24–32; 89–102; 134–138; 182–193; 226–245; 282–298. 4 pls. 1903.1

—— Nos poissons; *Anguilla vulgaris;* Minożek, *Petromyzon planeri;* Ryby jesiotrowate, Acipenseridæ. Okóln. Krajow. Towarz. Ryback. Kraków, 1905, 20–23; 121–126; 218–226. 8 pls. 1905.1

—— Nasze ryby. Sterlet czyli czeczuga (*Acipenser ruthenus* — der Sterlet) [Nos poissons; le sterlet] Okóln. Krajow. Towarz. Ryback. Kraków, 1906, 155–159; 185–187. 1906.1

—— Nasze ryby. Szyp (*Acipenser schypa* — der Dick) [Nos poissons: *Acipenser schypa*] Okóln. Krajow. Towarz. Ryback. Kraków, 1906, 26–29. 1906.2

Rozwadowski, *Tadeusz.* Est-ce que dans nos fleuves existe seulement une espèce de truite? [Text in Polish] Okóln. Krajow. Towarz. Ryback. Kraków, 1904, 75–76. 1904.1

—— Nasze ryby [Nos poissons] Okóln. Krajow. Towarz. Ryback. Kraków, 1908, 150–158. 1908.1

Rozynski, *Paul.* *Rivulus poeyi.* Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 430–431. 1909.1

—— Seltene Brutpflege. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 622–623. 1909.2

Ruau, —— La pisciculture en France. Bull. Soc. Centr. Aquicult. Pêche, 1904, **16**, 17–23; 46–63. 1904.1

Rudnev, *Vladimir Ghavrilovich* [*Gabriel*] Note sur le développement du canal central dans le système nerveux des poissons osseux [Text in Russian] Trav. Soc. Nat. Varsovie, 1894, **5**, no. 2, 15–21. 1894.1

—— Sur le corps intermédiaire de Flemming dans les blastomères chez les poissons osseux [Text in Russian] Trav. Soc. Nat. Varsovie, 1894, **5**, nos. 6–7, 8–15. 1894.2

—— Note sur la nageoire du caudal dans le système nerv-central des téléostéens. Bibliographie Anat., 1895, 43–47. 1895.1

Rudnev, *V. G.*

—— Einige Thatsachen zur Frage über die genetische Beziehung zwischen Amitose und Mitose. Physiologiste Russe, 1899, **1**, 120–144. 16 figs. 1899.1

—— Sur la division des blastomères des poissons osseux (Recherches cytologiques) [Text in Russian] Mém. Soc. Nat. Varsovie (C. R. Sect. Biol.), 1899, **10**. 43 p. 26 figs. 1899.2

Rudolphi, *Carl Asmund* [1771–1832] Einige Bemerkungen über die Durchkreuzung der Sehnerven bei den Fischen. Arch. Zool., 1800, **1**, pt. 2, 156–159. 1800.1

—— Uebersicht der bisher bei den Wirbelthieren gefundenen Steine. Fische. Abh. Akad. Wiss. Berlin 1812–13 (1816), 207. 1816.1

—— Ueber die elektrischen Fische. Abh. Akad. Wiss. Berlin, 1820–21, 223–233. 2 pls. 1820.1

—— Grundriss der Physiologie. 2 vols. Berlin, 1821–28. 1821.1

—— Ueber den Zitterwels. Abh. Akad. Wiss. Berlin, 1824, 132–144. 4 pls. — Isis (Oken), **4**, 351. 1824.1

Rückert, *Johann.* Zur Keimblattbildung bei Selachiern. Sitzber. Ges. Morphol. Physiol. München, 1885, **1**, 48–104. figs. 1885.1

—— Ueber die Anlage des mittleren Keimblattes und die erste Blutbildung bei Torpedo. Anat. Anz., 1887, 2. Jahrg., 97–112; 154–176. fig. 1887.1

—— Ueber den Ursprung des Herzendothels. Anat. Anz. (Verh. Vers. Anat. Ges.), 1887, 2. Jahrg., no. 12, 397. 1887.2

—— Ueber die Entstehung der endothelialen Anlagen des Herzens und der ersten Gefässstämme bei Selachier-Embryonen. Biol. Centralbl., 1888, **8**, 385–399; 417–430. 1888.1

—— Ueber die Entstehung der Excretions-organe bei Selachiern. Arch. Anat. Physiol. (*Anat. Abth.*), 1888, 205–278. 2 pls. — Remarks by J. W. van Wijhe. Zool. Anz., **11**, 539–540. 1888.2

—— Weitere Beiträge zur Keimblattbildung bei Selachiern. Anat. Anz., 1889, **4**, 353–374. pl. 1889.1

—— Zur Entwicklung des Excretionssystems der Selachier; eine Erwiederung an Herrn van Wijhe. Zool. Anz., 1889, **12**, 15–22. 1889.2

—— Zur Befruchtung des Selachiereies. Anat. Anz., 1891, **6**, 308–322. 1891.1

—— Zur Entwickelungsgeschichte des Ovarialeies bei Selachiern. Anat. Anz., 1892, 7. Jahrg., 107–158. figs. 1892.1

—— Ueber die Verdoppelung der Chromosomen in Keimbläschen des Selachiereies. Anat. Anz., 1893, 8. Jahrg., 44–52. figs. 1893.1

—— Ueber die Entwickelung des Spiraldarmes bei Selachiern. Arch. Entw.-Mech., Leipzig, 1896, **4**, 298–326. pl. & fig. 1896.1

—— Ueber die Spiraldarmentwickelung von Pristiurus. Arch. Anat. Ges., 1896, **10**, 145–150. 1896.2

—— Die erste Entwickelung des Eies der Elasmobranchier (In Festschrift zum siebenzigsten Geburtstag von Carl von Kupffer, p. 581–704. 8 pls. & 7 figs. Jena, 1899) 1899.1

—— Die Entstehung des Blutes und der ausserembryonalen Gefässe in den meroblastischen Eiern: Selachier (In Hertwig, O. Handbuch der Entwickelungslehre der Wirbeltiere, Lief. 27 & 28, p. 1090–1125. Jena, 1906) 1906.1

—— Ueber Polyspermie. Anat. Anz., 1910, **37**, 161–181. 1910.1

Ruediger, *G. F.*, & **Davis,** *D. J.* Phagocytosis and opsonins in the lower animals. Journ. Infect. Diseases, 1907, **4**, 333–336. 1907.1

Rüdinger, *Nicolaus* [1832–1896] Ueber die Nerven und das Epithel in den Ampullen und das Säckchen des häutigen Labyrinthes und über eigenthümliche Zellenreihen in den häutigen Bogengängen bei *Salmo hucho*. Monatsschr. Ohrenheilk., 1870, **4**, 65–70. 1870.1

Rueff, *A. von.* Die künstliche Fischzucht in Württemberg. Wochenbl. Landw. & Forstw. Stuttgart, 1872, 24. Jahrg., 1–4; 5–8. 1872.1

—— Fische und Fischereiwesen Württembergs. Circul. Deutsch. Fischerei Ver., 1873, no. 6, 224–229. 1873.1

—— Selbstthätige Vorrichtung zur Fütterung künstlich gezüchteter Forellen. Wochenbl. Landw. Forstw. Stuttgart, 1876, 28. Jahrg., 105–107. 1876.1

—— Ueber die Schonzeit der Forellen. Wochenbl. Landw. Forstw. Stuttgart, 1880, n. s. 3. Jahrg., 333. 1880.1

Rüppell, *Wilhelm Peter Eduard Simon* [1794–1884] Atlas zu der Reise im nördlichen Afrika. Zoologie. Fische des Rothen Meeres. 4 vols. Frankfurt-a.-M., 1826–28. 119 pls. fol. 1826.1

—— Beschreibung und Abbildung mehrerer neuer Fische im Nil entdeckt. Frankfurt-a.-M., 1829–35. fig. 4°. Abstract in Isis (Oken), **4**, 414. 1829.1

—— Description de cinq nouvelles espèces de poissons découverts dans le Nil. Bull. Sci. Nat. (Férussac), 1830, **22**, 132–134. 1830.1

—— Memoir on a new species of swordfish [*Histiophorus immaculatus*] Proc. Zool. Soc. London, 1835, **3**, 187. — Trans. Zool. Soc. London, **2**, 71–74. pl. — L'Institut, **4**, 290. 1835.1

—— Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. 2 vols. Frankfurt-a.-M., 1835–40. 1835.2

—— Neuer Nachtrag zu Beschreibungen und Abbildungen neuer Fische, im Nil entdeckt. Museum Senckenberg, 1836, **2**, pt. 1, 1–28. 1836.1

—— Verzeichniss der in dem Museum der Senckenbergischen naturforschenden Gesellschaft aufgestellten Sammlungen. Vierte Abtheilung. Fische und deren Skelette. Frankfurt-a.-M., 1852. 4°. 1852.1

Rüsch, *F. Miescher. See* **Miescher-Rüsch,** *F.*

Rüst, —— Ueber das Fliegen der verschiedenen Tiere. Jahresber. Naturhist. Ges. Hannover, 1893–97, **44–47**, 65–69. 1893.1

Rütimeyer, *Carl Ludwig* [1825–1895] Bemerkungen zu den fossilen Fischen aus Sumatra (In Heer, O. Ueber fossile Pflanzen von Sumatra. Abh. Schweiz. Paläontol. Ges., 1874, **1**, 20–26) — Jaarb. Mijn. Ned. O.-Indie, 1880, pt. 1, 159–168. fig. 1874.1

Ruffini, *Angelo.* Sullo sviluppo della milza nei selaci. Atti Accad. Fisiocrit., Siena, 1904, 4. ser. **16**, 39–41. 1904.1

Rufz de Lavison, *E.* Note sur quelques tentatives d'acclimatation du gourami (*Osphromenus olfax*) dans divers pays. Bull. Soc. Acclim. Paris, 1861, **8**, 392–403. 1861.1

—— Sur l'aquarium du jardin d'acclimatation. Bull. Soc. Acclim. Paris, 1863, **10**, xlvii–lxiii. 1863.1

Ruge, *Ernst.* Die Entwicklungsgeschichte des Skeletes der vorderen Extremitäten von *Spinax niger.* Morph. Jahrb., 1902, **30**, 1–27. pl. & 13 figs. 1902.1

Ruge, *Georg Hermann* [1852 —] Ueber das peripherische Gebiet des Nervus facialis bei Wirbelthieren (In Festschrift zum siebenzigsten Geburtstage von C. Gegenbaur, vol. iii, p. 193–348. figs. Leipzig, 1897) 1897.1

Rump, ——, & **Lehners,** —— Beitrag zur Lebertranfrage. Schweiz. Wochenschr. Chem. Pharm., 1904, 42. Jahrg., 160–164. 1904.1

Runeberg, *Ephraim Otto.* Beskrifning öfver Laihela socken i Österbotten. Handl. Svensk. Vet. Akad., 1758, **20**, no. 2, 108–162. 1758.1

Rupp, *Hermann.* Ueber die ostpreussischen Fischereien. Progr. Realschule Burg Königsberg i. Pr., 1862, **4**, 1–11. 1862.1

Rusconi, *A.* Intorno ai caratteri di riconoscimento dei pesci presi col cloro. Rivist. Mens. Pesca, Pavia, 1910, 5. ser. **12**, 249–263. 1910.1

Rusconi, *Mauro* [1770–1849] Lettera al Sig. Brocchi, nella quale si parla dello sonno iemale cui suggiace il cavalletto marino [*Syngnathus hippocampus* L.] e di alcune anatomiche ricerche che quest' autore si propone di fare ad oggetto di vedere se fra i pesci chiamati dal Sig. Cuvier "lofobranchii" ve ne fossero per avventura alcuni che in rispetto agli organi della circolazione somigliassero il proteo anguino. Giorn. Fis. Chim. Stor. Nat., 1819, **2**, 77–81. 1819.1

—— Fecondazione artificiale ne' pesci. Milano, 1835. pl. 1835.1

—— Lettera al Sig. Brugnatelli sopra la fecondazione artifiziale fatta nei pesci, e sopra le metamorfosi che accadono nell' uova de' pesci prima ch' esse si siano modellate in un embrione. Bibl. Ital., 1835, **79**, 124–125. — Ann. Sci. Nat. (*Zool.*), 2. sér. **4**, 183–184. 1835.2

Rusconi, *M.*

—— Lettera al Sig. Weber sopra la fecondazione artificiale ne' pesci, e sopra le metamorfosi a cui soggiacciono l' uova de' pesci innanzi di prender forma di embrione. Bibl. Ital., 1835, **79**, 250–257. 1835.3

—— Intorno al fregolo de' pesci. Bibl. Ital., 1836, **81**, 182–184. 1836.1

—— Lettres sur les changements que les œufs des poissons éprouvent avant qu'ils aient pris la forme d'embryon. Ann. Sci. Nat. (*Zool.*), 1836, 2. sér. **5**, 300–312. 1836.2

—— Ueber die Metamorphosen des Eies der Fische vor der Bildung des Embryo. Arch. Anat. (Müller), 1836, 278–288. — Mag. Zool. Bot., **1**, 586. 1836.3

—— Sopra la fecondazione artificiale nei pesci, e sopra alcune nuove sperienze intorno alla fecondazione artificiale nelle rane. Arch. Anat. (Müller), 1840, 185–193. fig. 1840.1

—— Briefliche Mittheilung an E. H. Weber: Ueber die Gestalt des Gehirns der Schleie, *Cyprinus tinca* (Chrysitis) im Alter von einem Jahre und bei dem erwachsenen Thiere. Arch. Anat. (Müller), 1846, 478–479. pl. & 2 figs. 1846.1

—— Sopra lo svilluppo dei ciprini, e norme sulla fecondazione artificielle dei pesci, publicato dal G. Morganti. Pavia, 1854. pl. 1854.1

Rush, *Nicolaus.* Die in Bayern einheimischen und für die Küche verwendbaren Fische. Wochschr. Landw., Landshut, 1878, 19–21; 28–29; 38–39; 44–45; 87–88; 96–97. 1878.1

Russegger, *Joseph von* [1802–1863] Naturwissenschaftliche Reisen in Europa, Asien und Africa. 4 vols. Stuttgart, 1841–48. 73 pls. & 18 maps. 8°. 1841.1

—— Reisen in Europa, Asien und Africa, mit besonderer Rücksicht auf die naturwissenschaftlichen Verhältnisse der betreffenden Länder, unternommen in den Jahren 1835 bis 1841, etc. Stuttgart, 1841–48[–49] illust. 8°. 1841.2

Russel, *Alexander* [1814–1876] The natural history of salmon, as ascertained by the recent experiments at Stortmontfield on the Tay. Edinburgh, 1864. 8°. 1864.1

—— The salmon. Edinburgh, 1864. viii, 248 p. 8°. 1864.2

Russell, *Alexander J.* Sturgeon in the Thames and Medway. Zoologist, 1879, 3. ser. **3**, 383. 1879.1

Russell, *Arthur John Edward.* Exhibition of a scaleless specimen, and remarks upon varieties of the common carp. Proc. Zool. Soc. London, 1873, 472–473. 1873.1

Russell, *Edward T.* The harvest of the sea. Boston, 1891. 1891.1

Russell, *H.* Chalk, stream and moorland; thoughts on trout-fishing. London, 1911. 260 p. figs. 8°. 1911.1

Russell, *Patrick* [1727–1805] Descriptions and figures of 200 fishes, collected at Vizagapatam on the coast of Coromandel. 2 vols. London, 1803. 197 pls. fol. 1803.1

Russo, *Achille.* Effetti della pesca con le sorgenti luminose sul prodotto delle reti di posta a Catania e sul prodotto delle tonnare della Sicilia orientale. Atti Accad. Gioenia Sci. Nat. Catania, 1913, 5. ser. **6**. 19 p. pl. & 4 figs. 1913.1

—— Note ed appunti sulla pesca del golfo di Catania. Atti Accad. Gioenia Sci. Nat. Catania, 1913, 5. ser. **6**. 15 p. 4 figs. 1913.2

Rusticus in Urbe (*pseudon.*) Fishes, and mode of preparing them. Mag. Nat. Hist., 1829, **2**, 65. 1829.1

Rutherford, *J.* Observations on the salmon disease. Trans. & Proc. Dumfriesshire & Galloway Sci. Antiq. & Nat. Hist. Soc. 1878–80 (1881), 72–76. 1881.1

Rutherfurd, *A. J.* Notes on Salmonidæ and their new home in the south Pacific. Trans. Prov. New Zealand Inst., 1901, **33**, 240–249. 1901.1

Ruthven, *Alexander G.* The cold-blooded vertebrates of the Porcupine mountains and isle Royale (In an ecological survey in northern Michigan, prepared under the direction of C. C. Adams) Rept. Mich. Geol. Surv., Lansing 1905 (1906), 329–333. 1906.1

Rutland, *J.* On the habits of the New Zealand grayling [Thymallus] Trans. Proc. New Zealand Inst. 1877 (1878), **10**, 250–252. 1878.1

—— On two new globe-fish, etc. [Wellington] 1896. 3 pls. 8°. 1896.1

Rutot, *Aimé Louis* [1847—] Note sur l'extension de *Lamna* [*Odontaspis*] *elegans* Ag. à travers les terrains crétacés et tertiaires. Ann. Soc. Géol. Belgique, 1875, **2**, 34–41. 1875.1

Observations sur la communication précédente par Ch. de La Vallée Poussin. *Ibid.*, Bull., p. 56.

—— Sur l'extension du *Lamna elegans* Ag., à travers les terrains crétacés et tertiaires. Journ. Zool. (Gervais), 1877, **6**, 180–181. 1877.1

—— Compte rendu des excursions de la session extraordinaire de la Société belge de géologie, de paléontologie et d'hydrologie dans le Hainaut et aux environs de Bruxelles (du 23 au 27 août 1902) Bull. Soc. Belge Géol. Pal. Hydrol., 1904, **17** (*Mém.*), 383–499. 26 figs. 1904.1

Rutot, *Aimé Louis,* & **Vincent,** *Gérard. See* **Vincent** & **Rutot.**

Rutter, *Cloudsley M.* Notes on freshwater fishes of the Pacific slope of North America. Proc. California Acad. Sci., 1896, 2. ser. **6**, 245–267. fig. 1896.1

—— A collection of fishes obtained in Swatow, China, by Miss Adele M. Fielde. Proc. Acad. Nat. Sci. Philad., 1897, 56–90. 1897.1

—— Notes on a collection of tidepool fishes from Kadiak island in Alaska. Washington, 1899. Extract in Bull. U. S. Fish Comm. 1898 (1899), **18**, 189–192. 1899.1

Fourteen species of teleosts are considered.

—— Studies in the natural history of the Sacramento salmon. Pop. Sci. Monthly, 1902, **61**, 195–211. 15 figs. 1902.1

—— The Pacific salmons. Country Life in America, 1903, **4**, 124–127. illust. 1903.1

—— Natural history of the quinnat salmon. A report of investigations in the Sacramento river, 1896–1901. Bull. U. S. Fish Comm. 1902 (1904), **22**, 65–141. 11 pls. & 19 figs. 1904.1

—— Notes on fishes from the gulf of California, with the description of a new genus and species. Proc. California Acad. Sci., 1904, 3. ser. **3** (*Zool.*), 251–254. pl. 1904.2

—— Notes on fishes from streams and lakes of northeastern California not tributary to the Sacramento basin. Bull. U. S. Fish Comm. 1902 (1904), **22**, 143–148. figs. 1904.3

—— The fishes of the Sacramento-San Joaquin basin, with a study of their distribution and variation. Bull. Bureau Fisheries 1907 (1908), **27**, 103–152. map. 1908.1

27 species of teleosts are considered.

Rutter, *Cloudsley M.*, & **Evermann,** *Barton W. See* **Evermann** & **Rutter.**

Rutter, *Cloudsley M.*, & **Jordan,** *David Starr. See* **Jordan** & **Rutter.**

Rutty, (*Dr.*) *John* [1698–1775] Essay towards a natural history of the county of Dublin. 2 vols. Dublin, 1772. 8°. 1772.1

The four chapters at the end of the first volume (p. 263–392) deal respectively with the quadrupeds, birds, fishes and insects.

Růžička, *Vladislav.* Berichtigendes zur Histologie des zentralen Nervensystems. Arch. Mikr. Anat., 1906, **68**, 684–686. 1906.1

Refers to the article cited under **Mencl,** *E.*, 1902.1, *supra.*

Ruzsky, *Mikhail Dmitrievich* [1864—] Die Fische des Flusses Swijaga [Text in Russian] Trudui Kasan Univ., 1887, **17**, pt. 4. 67 p. 1887.1

—— Zur Ichthyologie des Flusses Don. Protok. Obsch. Estest. Kasan, 1888–89, no. 105. 3 p. pl. 1888.1

—— Ueber einen Brachsen aus dem Wolga-Flusse [Text in Russian] Protok. Kazan. Univ., 1893–94, no. 146. 3 p. fig. 1893.1

—— [Ueber eine neue Form von *Leucaspius delineatus* Heck. (*L. delineatus dimorphus* Ruz.)] Proc.-Verb. Soc. Nat. Univ. Impér. Kazan, 1913, **44**, no. 287, 5. pl. 1913.1

Rychlicki, *Jan.* Beitrag zur Geologie der erdölführenden Schichten von Grozny [Text in Hungarian] Kosmos Lwów Roczn., 1909, **34**, 1139–1159. 2 figs. 1909.1

—— Beitrag zur Kenntnis der Fischfauna aus den karpathischen Menilitschiefern [Text in Hungarian] Kosmos Lwów Roczn., 1909, **34**, 749–764. pl. 1909.2

Ryder, *Francis W.* Codfish caught near cape Charles, mouth of Chespeake bay, 1834. Bull. U. S. Fish Comm. 1881 (1882), **1**, 384–385. 1882.1

Ryder, *John Adam* [1852–1895] For biographical sketch, *see* Allen, H., in Proc. Acad. Nat. Sci. Philad. 1896 (1897), **48**, 222.

—— Note on the origin of bilateral symmetry and the numerous segments of the soft rays of fishes. Amer. Naturalist, 1879, **13**, 41–43. 1879.1

—— Strange habitat of a barnacle on a gar pike. Chicago Field, 1879, **11**, 372. 1879.2

—— Phosphorescence of very young fishes. Amer. Naturalist, 1880, **14**, 675–676. 1880.1

—— The psorosperms found in *Aphredoderus sayanus*. Amer. Naturalist, 1880, **14**, 211–212. 2 pls. 1880.2

Encysted in subcutaneous intermuscular tissue of pirate perch from Woodbury, N. J. According to prevalent view regarded as young of Gregarina, now known to belong to Myxosporidia. This species named *Myxobolus monurus* by Gurley, 1893.

—— Structure and ovarian incubation of the top-minnow (Zygonectes) Forest & Stream, 1881, **17**, 51–52. 1881.1

—— Additional observations on the retardation of the development of the ova of the shad. Bull. U. S. Fish Comm. 1881 (1882), **1**, 422–424. 1882.1

—— A contribution to the development and morphology of the lophobranchiates, *Hippocampus antiquorum*. Bull. U. S. Fish Comm. 1881 (1882), **1**, 191–199. 1882.2

—— Development of the silver gar (*Belone longirostris*), with observations on the genesis of the blood in embryo fishes, and a comparison of fish ova with those of other vertebrates. Bull. U. S. Fish Comm. 1881 (1882), **1**, 283–301. 2 pls. 1882.3

—— Development of the Spanish mackerel (*Cybium maculatum*) Bull. U. S. Fish Comm. 1881 (1882), **1**, 135–172. 4 pls. 1882.4

—— The micropyle of the egg of the white perch. Bull. U. S. Fish Comm. 1881 (1882), **1**, 282. 1882.5

—— Notes on the development, spinning habits and structure of the four-spined stickleback, *Apeltes quadracus*. Bull. U. S. Fish Comm. 1881 (1882), **1**, 24–29. 1882.6

—— On the nuclear cleavage-figures developed during the segmentation of the germinal disk of the egg of the salmon. Bull. U. S. Fish Comm. 1881 (1882), **1**, 335–339. pl. 1882.7

—— On the retardation of the development of the ova of the shad (*Alosa sapidissima*) with observations on the egg-fungus and bacteria. Bull. U. S. Fish Comm. 1881 (1882), **1**, 177–190. 1882.8

—— Preliminary notice of the more important scientific results obtained from a study of the embryology of fishes. Bull. U. S. Fish Comm. 1881 (1882), **1**, 22–23. 1882.9

—— The protozoa and protophytes considered as the primary or indirect source of the food of fishes. Bull. U. S. Fish Comm. 1881 (1882), **1**, 236–251. 1882.10

—— Structure and ovarian incubation of *Gambusia patruelis*, a top-minnow. Amer. Naturalist, 1882, **16**, 109–118. 1882.11

—— The unpaired fins of selachians. Amer. Naturalist, 1882, **20**, 142–143. 1882.12

Abstract of P. Mayer's Die unpaaren Flossen der Selachier.

—— Observations on the absorption of the yolk, the food, feeding and development of embryo fishes, comprising some investigations conducted at the Central hatchery, Armory building, Washington, D. C., in 1882. Bull. U. S. Fish Comm. 1882 (1883), **2**, 179–205. fig. 1883.1

—— On the threadbearing eggs of the silversides (Menidia) Bull. U. S. Fish Comm. 1883, **3**, 193–196. 4 figs. 1883.2

—— Preliminary notice of the development and breeding habits of the Potomac catfish, *Amiurus albidus* (Le Sueur) Gill. Bull. U. S. Fish Comm. 1883, **3**, 225–230. 1883.3

—— Report on the abnormal appearance of some shad eggs from a fish kept in confinement at Havre de Grace, Md. Bull. U. S. Fish Comm. 1883, **3**, 440. 1883.4

—— Care of goldfish. Queries of William Rosenstihl, jr., with replies. Bull. U. S. Fish Comm. 1884, **4**, 381–382. 1884.1

—— Carp do eat young fishes. Bull. U. S. Fish Comm. 1884, **4**, 152. 1884.2

—— A contribution to the embryography of osseous fishes, with special reference to the development of the cod (*Gadus morrhua*) Rept. U. S. Fish Comm. 1882 (1884), **10**, 455–605. Also separate; Washington, 1884. 149 p. 12 pls. 8°. 1884.3

—— Notes on the regeneration of the scales of the German carp. Bull. U. S. Fish Comm. 1884, **4**, 345–346. 1884.4

—— On the retardation of the development of the ova of the shad (*Alosa sapidissima*) with observations on the egg fungus and bacteria. Rept. U. S. Fish Comm. 1881 (1884), **9**, 795–811. 1884.5

—— On a skin parasite of the cunner (*Ctenolabrus adspersus*) Bull. U. S. Fish Comm. 1884, **4**, 37–42. 1884.6

—— The archistome theory. Amer. Naturalist, 1885, **19**, 1115–1121. 1885.1

—— The development of the rays of osseous fishes. Amer. Naturalist, 1885, **19**, 200–204. figs. Abstract in Journ. Roy. Micr. Soc., **5**, 213. 1885.2

—— Development of the spines of the anterior dorsal of Gasterosteus and Lophius. Amer. Naturalist, 1885, **19**, 415. 1885.3

—— Directions for collecting embiotocoid fish embryos. Bull. U. S. Fish Comm. 1885, **5**, 32. 1885.4

—— Note on the male organs of the eel. Bull. U. S. Fish Comm. 1885, **5**, 1–3. 2 figs. 1885.5

—— On certain features of the development of the salmon. Proc. U. S. Nat. Mus., 1885, **8**, 157–162. pl. Abstract in Journ. Roy. Micr. Soc., **5**, 786. 1885.6

—— On the availability of embryological characters in the classification of the Chordata. Amer. Naturalist, 1885, **19**, 815–819; 903–907. 1885.7

—— On the forces which determine the survival of fish embryos. Forest & Stream, 1885, **23**, 50–51. 1885.8

—— On the formation of the embryonic axis of the teleostean embryo by the concrescence of the rim of the blastoderm. Amer. Naturalist, 1885, **19**, 614–615. fig. 1885.9

—— On the manner in which the cavity of the heart is formed in certain teleosts. Amer. Naturalist, 1885, **19**, 1015–1017. 1885.10

—— On the morphology and evolution of the tails of osseous fishes. Proc. Amer. Assoc. Adv. Sci., 33. meet., 1885, 532–533. 1885.11

—— On the position of the yolk-blastopore as determined by the size of the vitellus. Amer. Naturalist, 1885, **19**, 411–415. Abstract in Journ. Roy. Micr. Soc., **5**, 978. 1885.12

—— On the translocation forwards of the rudiments of the pelvic fins in the embryos of physoclist fishes. Amer. Naturalist, 1885, **19**, 315–317. Abstract in Journ. Roy. Micr. Soc., **5**, 618. 1885.13

—— An outline of a theory of the development of the unpaired fins of fishes. Amer. Naturalist, 1885, **19**, 90–97. figs. 1885.14

—— The development of *Fundulus heteroclitus*. Amer. Naturalist, 1886, **20**, 824. 1886.1

—— The development of the mud-minnow (*Umbra limi*) Amer. Naturalist, 1886, **20**, 823–824. 1886.2

—— The development of the toad-fish (Batrachus) Amer. Naturalist, 1886, **20**, 77–80. — Bull. U. S. Fish Comm. 1886 (1887), **6**, 4–8. pl. 1886.3

—— Embryology of the fishes' fins. Rept. U. S. Fish Comm. 1884 (1886), **12**, 981–1086. 1886.4

—— On certain features of the development of the salmon. Proc. U. S. Nat. Mus., 1886, **8**, 156–162. 1886.5

—— On some of the protective contrivances developed by and in connection with the ova of various species of fishes. Trans. Amer. Fisheries Soc. 1885 (1886), 59–65. 1886.6

—— On the development of viviparous osseous fishes. Proc. U. S. Nat. Mus., 1886, **8**, 128–155. 6 pls. Abstract in Journ. Roy. Micr. Soc., **5**, 978–979. 1886.7

—— On the origin of heterocercy and the evolution of the fins and fin-rays of fishes. Rept. U. S. Fish Comm. 1884 (1886), **12**, 981–1106. 11 pls. 1886.8

—— On the symmetry of the first segmentation furrows of the blastodisk of elasmobranchs. Amer. Naturalist, 1886, **20**, 470–473. 2 figs. 1886.9

Ryder, *J. A.*

—— The origin of the pigment cells which invest the oil-drop in pelagic fish embryos. Amer. Naturalist, 1886, **20**, 987–988. 1886.10

—— Success in hatching the eggs of the cod. Science, 1886, **7**, 26–28. 1886.11

—— Why do certain fish ova float? Amer. Naturalist, 1886, **20**, 986–987. 1886.12

—— On the earlier stages of cleavage of the blastodisk of *Raia erinacea*. Bull. U. S. Fish Comm. 1886 (1887), **6**, 8–10. fig. 1887.1

—— On the development of osseous fishes, including marine and freshwater forms. Rept. U. S. Fish Comm. 1885 (1887), **13**, 488–604. 30 pls. & 7 figs. 1887.2

Gadus morrhua, Clupea vernalis, Elacate canada, Siphostoma fuscum, Apeltes quadracus, Esox reticulatus, Roccus americanus, Stizostedium vitreum, Scombromorus maculatus, Chætodipterus faber, Gadus tomcodus, Clupea sapidissima, Ictalurus albidus.

—— On the homologies and early history of the limbs of vertebrates. Proc. Acad. Nat. Sci. Philad., 1887, 344–368. 1887.3

—— On the intraovarian gestation of the redfish (*Sebastes marinus*) Bull. U. S. Fish Comm. 1886 (1887), **6**, 92–94. 1887.4

—— On the value of the fin-rays and their characteristics of development in the classification of the fishes, together with remarks on the theory of degeneration. Proc. U. S. Nat. Mus. 1886 (1887), **9**, 71–82. illust. 1887.5

—— Development of the sea-bass (*Serranus atrarius*) Amer. Naturalist, 1888, **22**, 755. 1888.1

—— On the development of the common sturgeon (*Acipenser sturio*) Amer. Naturalist, 1888, **22**, 659–660. 1888.2

—— The continuity of the primary matrix of the scales and the actinotrichia of teleosts. Amer. Naturalist, 1890, **24**, 489–491. 1890.1

—— The functions and histology of the yolk-sac of the young toad-fish (*Batrachus tau*) Proc. Acad. Nat. Sci. Philad., 1890, 407–408. 1890.2

—— The lateral line organs and the hyaline tissues of the head of the shad. Trans. Amer. Fisheries Soc. 1889 (1890), 20–22. 1890.3

—— The sturgeons and sturgeon industries of the eastern coast of the United States, with an account of experiments bearing upon sturgeon culture. Bull. U. S. Fish Comm. 1888 (1890), **8**, 231–328. 19 pls. 1890.4

—— On the mechanical genesis of the scales of fishes. Proc. Acad. Nat. Sci. Philad., 1892, 219–244. 3 figs. — Ann. Mag. Nat. Hist., 6. ser. **11**, 243–248. figs. 1892.1

—— Report of operations at the laboratory of the United States Fish Commission, Woods Hole, Mass., during the summer of 1888. Rept. U. S. Fish Comm. 1888 (1892), **16**, 513–522. 1892.2

—— The inheritance of modifications due to disturbances of the early stages of development, especially in the Japanese domesticated races of gold carp. Proc. Acad. Nat. Sci. Philad., 1893, 75–94. 1893.1

—— The vascular respiratory mechanism of the vertical fins of the viviparous Embiotocidæ. Proc. Acad. Nat. Sci. Philad., 1893, 95–99. fig. 1893.2

—— Biological research in relation to the fisheries. Bull. U. S. Fish Comm. 1894, **13**, 59–63. 1894.1

—— An arrangement of the retinal cells in the eyes of fishes partially simulating compound eyes. Proc. Acad. Nat. Sci. Philad. 1895 (1896), 161–166. 2 figs. 1896.1

—— Dubbelfiskar. Fiskeritidskr. Finl., 1896, **5**, 148. 1896.2

Ryder, *John Adam,* & **Gill,** *Theodore N. See* **Gill** & **Ryder.**

Rynberk, *Gerard Abraham van.* Beobachtungen über die Pigmentation der Haut bei *Scyllium catulus* und *S. canicula*, und ihre Zuordnung zu der segmentalen Hautinnervation dieser Tiere. Nederl. Bijdrag. Anat., Haarlem, 1904 (1905), **3**, 137–173. 26 figs. 1905.1

—— Di alcuni speciali fenomeni motori e d' inibizione nel pesce cane (Scyllium) Arch. Farmacol. Sper. Sci. Aff., 1905, **4**, 396–400. 1905.2

—— I disegni cutanei dei vertebrati in rapporto alla dottrina segmentale. Arch. Fisiol., Firenze, 1905, **3**, 1–55. 12 figs. 1905.3

—— Ricerche sulla respirazione dei pesci. Rendic. Accad. Lincei, 1905, 5. ser. **14**, pt. 2, 443–451; 530–534; 708–718. 7 figs. 1905.4

—— Sur quelques phénomènes spéciaux de mouvement et d'inhibition chez le requin (Scyllium) Arch. Ital. Biol., Turin, 1905, **43**, pt. 11, 287–292. 1905.5

—— Recherches sur la respiration des poissons. Arch. Ital. Biol., 1906, **45**, 183–198. 1906.1

—— Sulla metameria nel sistema nervoso simpatico. I. L'innervazione pigmento motrice. Arch. Fisiol., Roma, 1906, **51**, 601–608. 2 pls. 1906.2

—— Sul riflesso orbicolare delle palpebre nel pesce cane (Scyllium) Rendic. Accad. Lincei, Roma, 1906, 5. ser. **15**, pt. 1, 53–55. 1906.3

—— Sur quelques phénomènes spéciaux de mouvement et d'inhibition chez le requin ("Scyllium") Arch. Ital. Biol., Torino, 1906, **45**, 58–62. 1906.4

—— Over segmentale huidverzorging, door het sympathische zenuwstelsel bij gewervelde dieren, op grond van proefondervindelijke onderzoekingen over de zenuwverzorging der kleurstofcellen bij platvisschen en der haarbewegende spieren bij katten. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1907, **16**, 290–299. 9 figs. 1907.1

—— Di una disposizione particolare nello scheletro cutaneo di alcuni selacei. Rendic. Accad. Lincei, 1908, 5. ser. **17**, pt. 1, 137–146. 12 figs. — Rivist. Mens. Pesca Milano, **10**, 50–58. 12 figs. — Arch. Ital. Biol., **49**, 203–212. 12 figs. 1908.1

—— Kleinere Beiträge zur vergleichenden Physiologie. Folia Neuro-Biol., Haarlem, 1911, **5**, 244–250. — Zentralbl. Physiol., **24**, 1161–1163. 1911.1

—— Piccoli contributi di fisiologia comparata. Arch. Farm. Sper. Sci. Aff., 1911, **11**, 187–193. 1911.2

i. L'importanza della qualità fisica suolo per i cambiamenti riflessi del colorito cutaneo nei pleuronectidi.

ii. Della pretesa importanza dell' acqua come stimolo respiratorio nei pesci.

Rzehak, *A.* Ueber das Vorkommen und die geologische Bedeutung der Clupeidengattung. Brünn, 1881. pl. 8°. 1881.1

—— Die Clupeidengattung. Brünn, 1887. pl. 1887.1

S

S., *C. A.* Spawning of the Columbia river chub. Forest & Stream, 1880, **15**, 8. 1880.1

S., *C. J.* Salmon poisoned dogs. Forest & Stream, 1880, **14**, 8. 1880.1

Fresh salmon blood the cause of distemper in dogs.

S., *C. M.* Do fish have fits? Forest & Stream, 1880, **15**, 247. 1880.1

S., *G.* The [fossil] Ceratodus. Sci. Gossip, 1876, 90–91. 1876.1

S., *G.* Zur Abnormalität der Flussbarbe. Oesterr.-ungar. Fischerei Zeitg., 1880, 116–117. 1880.1

S., *H. P.* Snake in a trout's stomach. Amer. Sportsman, 1874, **4**, 139. 1874.1

S., *J.* On the breeding habits of some West-African fishes. Proc. Phil. Soc. Cambridge, 1901, **11**. 1901.1

S., *O.* Woodward's California aquarium. Forest & Stream, 1877, **8**, 128. 1877.1

S., *T. S.* Den swenske fiskaren, eller walment underrattelse omdeti swerige nu för tiden brukeliga fiskeri, jemte beskrifning par de bekanta fiskar och fiskeredskap. Stockholm, 1778. viii, 256 p. 1778.1

S., *W.* Sieg-Fischerei-Actiengesellschaft zu Wissen an der Sieg. Zool. Garten, 1867, **8**, 356–357. 1867.1

S., *W. G.* Liberating fry. Forest & Stream, 1880, **14**, 45. 1880.1

Saagmanns Mulder, *A. E.* Jets aangaande de beentjes, die men bij de cyprini aan de eerste wervels verbonden vindt. Bijdr. Natuurk. Wetensch., 1831, **6**, 84–105. pl. 1831.1

Sabanyeev, *Leonid Pavlovich.* Catalogue of the mammals, birds, reptiles, amphibia and fishes of the middle Oural. Bull. Soc. Nat. Moscou, 1872, **44**, pt. 2, 210–278. 1872.1

—— The fish of Russia. Life-histories and mode of catching our freshwater fish [Text in Russian] Moskva, 1874. iv, 585 p. illust. 1874.1

—— Die Fische Russlands. Das Leben und der Fang (Angeln) unserer Süsswasserfische [Text in Russian] Priroda i Ochata, Moskva, 1911, Beilage Bd. **38**, 1062. 1911.1

Sabatier, *Charles Paul Dieudonné Armand* [1834 —] Etudes sur le cœur et la circulation centrale dans la série des vertébrés. Ann. Sci. Nat. (*Zool.*), 1873, 5. sér. **18**, art. 4. 3 pls. — Rev. Cours. Scient., **5**, 163–165. 1873.1

—— De la spermatogenèse chez les plagiostomes et chez les amphibiens. C. R. Acad. Sci. Paris, 1882, **94**, 1097–1099. 1882.1

—— Sur quelques points de la spermatogenèse chez les sélaciens. C. R. Acad. Sci. Paris, 1895, **120**, 47–50; 205–208. — C. R. Assoc. Franç. Avanc. Sci., 23. sess., pt. 1, 173–174. 1895.1

—— Morphologie des membres chez les poissons osseux. C. R. Acad. Sci. Paris, 1896, **122**, 121–125. Abstract in Rev. Scient., 1896, 4. sér. **5**, no. 6, 183. 1896.1

—— La spermatogenèse chez les poissons sélaciens. Trav. Inst. Univ. Montpellier, 1896. — Mém. Acad. Sci. Montpellier, 1896, **2**, 53–238. 9 pls. Abstract in Journ. Roy. Micr. Soc., 1897, pt. 5, 354. 1896.2

—— Morphologie du sternum et des clavicules. C. R. Acad. Sci. Paris, 1897, **124**. 4 p. 1897.1

—— Morphologie des ceintures et des membres pairs et impairs des sélaciens. C. R. Acad. Sci. Paris, 1898, **127**, 928–932. 1898.1

—— De la spermatogenèse chez les sélaciens. Mém. Acad. Sci. Montpellier, 1900, 2. sér. **2**, 53–238. 9 pls. 1900.1

—— Du système sternal des vertébrés. C. R. Assoc. Anatomistes, 4. sess., 1902, 99–102. 1902.1

—— Sur les mains scapulaires et pelviennes chez les poissons chondroptérygiens. C. R. Acad. Sci. Paris, 1903, **137**, 1216–1219. 1903.1

—— Sur les mains scapulaires et pelviennes des poissons. C. R. Acad. Sci. Paris, 1903, **137**, 893–896. 1903.2

—— Sur les mains scapulaires et pelviennes des poissons holocéphales et chez les dipneustes. C. R. Acad. Sci. Paris, 1904, **138**, 249–252. 1904.1

Sabin, *Joseph.* A bibliographical catalogue of the Waltonian library belonging to the estate of Robert W. Coleman deceased, etc. New York, 1866. 8°. 1866.1

—— Bibliotheca Americana, a dictionary of books relating to America. 116 pts. in 20 vols. New York, 1868–92. 8°. 1868.1

An extremely important bibliographical work, containing full references to voyages and expeditions relating to America.

Sabine, *(Sir) Edward* [1788–1883] Capt. Parry's voyage for the discovery of a northwest passage (1818–1820) An account of fish. London, 1824. 1824.1

—— A supplement to the appendix of Captain Parry's voyage for the discovery of a northwest passage in the years 1819–20, containing an account of the subjects of natural history. London, 1824. 6 pls. 4°. 1824.2

Sabine, *Joseph* [1770–1837] An appendix [on the natural history of] narrative of a journey to the shores of the Polar sea, in the years 1819, 20, 21, and 22, etc. London, 1823. 783 p. pls. 4°. 1823.1

Sabine, *Lorenzo* [1803–1877] Report on the principal fisheries of the American seas, prepared for the Treasury Department of the United States. Washington, 1853. 317 p. 1853.1

" This is the first attempt at writing a history of American fisheries, and the only one until the appearance of the voluminous compilation [by G. B. Goode and associates] authorized in 1880. In many ways it still remains a standard work, especially of the fisheries as carried on in American waters previous to the settlement at Plymouth . . . In addition to his admirable collection of material, the author possessed other qualifications that should mark his volume as one of the standard sources of the history of the American fisheries, for it may safely be considered both a history and a source." — McFarland, R. A history of the New England fisheries, p. 357.

Sabrazès, *J.*, & **Colombot,** —— Action de la bactéridie charbonneuse sur un poisson marin, l'hippocampe. Ann. Inst. Pasteur, 1894, 696–706. 1894.1

Sabrazès, *J.*, & **Muratet,** *E.* Corpuscules mobiles endoglobulaires de l'hippocampe. C. R. Mém. Soc. Biol. Paris, 1900, **52**, 365–367. 1900.1

—— Granulation mobiles dans les globules rouges de certains poissons. Act. Soc. Linn. Bordeaux, 1900, **55**, xciii–xcvi. pl. — C. R. Mém. Soc. Biol. Paris, 1900, **52**, 415–416. 1900.2

—— Granulation mobiles dans les globules rouges de l'hippocampe. Act. Soc. Linn. Bordeaux, 1900, **55**, lxv–lxxi. 1900.3

—— Le sang de l'hippocampe; la phagocytose chez ce poisson. Trav. Soc. Sci. Stat. Zool. Arcachon, 1900–01, 75–80. pl. 1900.4

—— Extraordinaire vitalité d'une anguille (*Anguilla vulgaris*) Présence d'un trypanosome dans son sang. Act. Soc. Linn. Bordeaux, 1901, **56** (*Proc. Verb.*), clxviii–clxix. 1901.1

—— Granulations endoglobulaires des globules rouges des anguilles jeunes. Act. Soc. Linn. Bordeaux, 1902, **57** (*Proc. Verb.*), cix. 1902.1

—— Trypanosome de l'anguille (*Anguilla vulgaris*) Act. Soc. Linn. Bordeaux, 1902, **57** (*Proc. Verb.*), lxxxii–lxxxiii. — Trav. Soc. Sci. Stat. Biol. Arcachon, **6**, 119–125. pl. — C. R. Mém. Soc. Biol. Paris, **56**, 66–68; 159. 1902.2

—— Vitalité de l' *Anguilla vulgaris* dans l'eau stagnante, véritable culture d'algues vertes. C. R. Mém. Soc. Biol. Paris, 1905, **57**, 682. — Réunion Biol. Bordeaux, 1905, 49. 1905.1

—— Vitalité de *Trypanosoma anguillæ* dans le sang du cœur après la mort de cet animal. Gazette Hebd. Sci. Méd. Bordeaux, 1907, **28**, 231. 1907.1

—— Observations sur le sang de la torpille (*Torpedo marmorata* Risso) Act. Soc. Linn. Bordeaux, 1908, **62** (*Proc. Verb.*), cxiii–cxvii. — Folia Haematol., **6**, 167–170. 1908.1

—— Trypanosome de la torpille (*Torpedo marmorata* Risso) Gazette Hebd. Sci. Méd. Bordeaux, 1908, **29**, 205–206. 1908.2

—— Absence d'autoagglutination des hématies dans les préparations du sang

Sabrazès & **Muratet.** d'*Anguilla vulgaris* contenant des trypanosomes. Act. Soc. Linn. Bordeaux, 1909, **62**, xliii. 1909.1

—— Trypanosome de la torpille. Act. Soc. Linn. Bordeaux, 1909, **62**, cxvii–cxix. 1909.2

—— Vitalité du *Trypanosoma anguillæ* dans le sang du cœur après la mort de cet animal. Act. Soc. Linn. Bordeaux, 1909, **62**, xliii–xliv. 1909.3

Sacc, —— Briefliche Mittheilung [Ein Zierfisch aus den Morästen von Annam in China] Thiergarten (Weinland), 1864, 1. Jahrg., 62–63. 1864.1

Sacchi, *Joseph.* Nouvelles recherches sur la structure de la névroglie de la rétine des vertébrés. Arch. Ital. Biol., 1884, 3. sér. **6**, 76–96. 1884.1

Petromyzon marinus.

Sacchi, *Maria.* Sulla struttura del tegumento negli embrioni ed avannotti del *Salmo lacustris.* Rendic. Istit. Lombardo, 1887, 2. ser. **20**, 642–649. pl. 1887.1

—— Sulle minute differenze fra gli organi omotypici dei pleuronettidi. Atti Soc. Ligust. Sci. Nat. Genova, 1893, **4**, 356–369. pl. 1893.1

—— Sur les fines différences entre les organes homotypiques des pleuronectes. Arch. Ital. Biol., 1894, **21**, 168–170. 1894.1

—— Sulla struttura degli organi del veleno della Scorpæna. Atti Soc. Ligust. Sci. Nat. Genova, 1895, **6**, 89–98; 234–237. 2 pls. 1895.1

—— Su di un caso d' arresto dell' emigrazione oculare, con pigmentazione del lato cieco in un *Rhombus maximus.* Atti Soc. Ligust. Sci. Nat. Genova, 1898, **9**, 449–451. pl. — Boll. Mus. Zool. Anat. Comp. Genova, no. 67. 4 p. pl. 1898.1

—— Altri casi d' anomalie nei pleuronettidi. Boll. Mus. Zool. Anat. Comp. Genova, 1899, **4**, no. 82. 3 p. 1899.1

Inversione completa. Albinismo.

—— Su d' un caso d' inversione nella pleurostasi di una *Solea vulgaris.* Rivist. Sci. Biol., Como, 1899. 1899.2

Sacco, *Federico* [1864 —] Sur quelques restes fossiles de poissons du Pliocène du Piémont. Bull. Soc. Géol. France, 1886, 3. sér. **14**, 360–368. 1886.1

Sélaciens; moule de valvule spirale d'un squalide.

—— Les étages et les faunes du bassin tertiare du Piémont. Bull. Soc. Géol. France, 1905, 4. sér. **5**, 893–916. 1905.1

Contains faunal lists of fossil fishes.

—— Les formations ophitifères du Crétacé. Bull. Soc. Belge Géol. Paléont. Hydrol., 1905, **19**, 247–265. pl. 1905.2

List of selachian remains determined by F. Bassani, p. 255.

Sachs, *Carl* [1853–1878] Beobachtungen und Versuche am südamerikanischen Zitteraale (*Gymnotus electricus*) Arch. Physiol., 1877, 66–95. Abstract in Journ. Anat. Physiol., London, 1879, **15**, 614–616. 1877.1

—— Ueber die von ihm im Auftrage der Berliner Akademie der Wissenschaften in Venezuela angestellten Untersuchungen über die Anatomie und Physiologie des Zitteraales. Amtl. Ber. 50. Vers. Deutsch. Naturf., 1877, 244–245. 1877.2

—— Dr. C. Sachs Untersuchungen am Zitteraal, *Gymnotus electricus,* nach seinem Tode bearbeitet von E. Du Bois-Reymond, mit zwei Abhandlungen von G. Fritsch. Leipzig, 1881. xxviii, 446 p. 8 pls. illust. 8°. Summary in Journ. Roy. Micr. Soc., 2. sér. **2**, 602. 1881.1

Sachs, *Julius. Gambusia holbrooki.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 138–139. 2 figs. 1913.1

Sachs, *Marie Magdalena.* Die Weber'schen Knöchelchen bei den Cyprinoiden der schweizerischen Fauna. Rev. Suisse Zool., 1912, **20**, 725–759. 3 pls. & 6 figs. 1912.1

Sachs, *T. R.* A wall-eyed pike. Fish. Gazette, 1879, **3**, 42. 1879.1

—— New species of fish for English lakes and rivers. The wels (*Silurus glanis*), the pike-perch or zander (*Lucioperca sandra*) Fish. Gazette, 1880, **4**, 628. 1880.1

Sack, *Albert von.* A narrative of a voyage to Surinam, etc. London, 1810. 1810.1

Saco, *José Antonio.* Obras [Enumeración de especies de peces cubanos]

Not seen. A list of Cuban fishes by Saco is referred to by Manuel Presas in Anal. Inst. Segunda Enseñ. 1895–96, **2**, 354.

Sacy, (*Baron*) *Antoine Isaac Silvestre de* [1758–1838] Mémoire sur la respiration des poissons, comparée à celle des

autres animaux. Bull. Soc. Philom. Paris, 1791, **1**, 17–18. 1791.1

Sadelin, *Pehr Ulrik Ferdinand.* Fauna fennica, sive enumeratio animalium, quae alit terra Finlandiæ insulæque et adjacentes. Inaug. Dissert. Abo, 1810. 33 p. 8°. 1810.1

Pts. 2 & 3, 1819. 8°.

Saedeleer, *A. de,* & **Maréchal,** *J. See* **Maréchal** & **Saedeleer.**

Sæmundsson, *Bjarni.* Zoologiske meddelelser fra Island. Vidensk. Meddel. Naturh. Foren., Kjøbenhavn, 1897–1908. 1897.1

i. Gogerokken, *Raja fullonica* L., ny for Island. Vidensk. Meddel. Naturh. For. Kjøbenhavn, 1897, 198–201.
ii. Om hvalrossens forekmost ved Island i ældre og nyere tider. *Ibid.*, 201–210.
iii. 3 fiske, nye for Island. Om *Centrophorus squamosus*, by A. S. Jensen. *Ibid.*, 1899, 407–419.
iv. Om brugdens forekomst ved Island i senere tid. *Ibid.*, 420–424.
vi. 6 fiske, nye for Island, og tilfojelser om nogle tidligere kendte. *Ibid.*, 1903, 43–52.
viii. 3 fiske, nye for Island. *Ibid.*, 1905, 1–5.
x. 5 fiske nye for Island og bemærkninger om andre tidligere kendte. *Ibid.*, 1908, 19–39.

—— Fiskirannsóknir 1900–1910 [Ichthyological researches] Andvari Timar. Islenz. Thjódvin., Reykjavik, 1901, **27**, 53–135. *Ibid.*, 1902, **28**, 112–135. *Ibid.*, 1905, **31**, 105–148. *Ibid.*, 1906, **32**, 105–145. *Ibid.*, 1907, **33**, 116–150. *Ibid.*, 1908, **34**, 114–153. *Ibid.*, 1910, **36**, 51–103. 1901.1

—— On some Icelandic fishes [Text in Icelandic] Skýrsla Islenz. Natturufr., Reykjavik, 1901, 17–20. 1901.2

—— Nýir eoa fágætir fiskar à Islandi [New or rare fishes in Iceland] Skýrsla Islenz. Natturufr., Reykjavik, 1907, 26–29. *Ibid.*, 1911, 32–35. 1907.1

—— Oversigt over Islands fiske med oplysninger om deres forekomst, vigtigste biologiske forhold og økonomiske betydning [A textbook on the Icelandic fishes] Skrift. Komm. Havunders., 1909, no. 5. 140 p. 4 figs. & map. 1909.1

—— Um lífshætti álsins [The biology of the eel] Skírn. Timarit. Bokmentaf., Reykjavik, 1911, 305–322. 1911.1

—— Continued marking experiments on plaice and cod in Icelandic waters. Meddel. Havunders. Kjøbenhavn, 1913, **4**, no. 6 (Ser. Fiskeri), 34. 7 figs. 1913.1

—— New or rare fishes in Iceland. Skyrsla Natturufr., Reykjavik, 1913, 26–29. 1913.2

—— Zoologiske meddelelser fra Island [Remarks on some fishes and birds new for the Icelandic fauna or rare in Iceland] Nath. Meddel. Kjøbenhavn, 1913, **65**, 1–50. 2 pls. 1913.3

Sagard, *Theodat G.* Le grand voyage du pays des Hurons situé en l'Amérique vers la mer douce, etc. Paris, 1865. xxvi, 268 p. 8°. 1865.1

Sage, *Carlos.* Estudio económico e industrial sobre los peces introducidos en Chile. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 298–308. 1912.1

—— El instituto de pesca del Uruguai. Boletin de Bosques, Pesca i Caza, Santiago, 1912, **1**, 110–114. 1912.2

Sage, *Dean.* The Ristigouche and its salmon fishing, with a chapter on angling literature. Edinburgh, 1888. xvi, 275 p. 71 illust. & map. 4°. 1888.1

The notes on angling literature include references to a number of old and rare works dealing with fish and fishing.

—— A catalogue of the collection of books on angling belonging to Mr. Dean Sage. New York, 1896. 245 p. 8°. 1896.1

Sage, *Dean,* **Townsend,** *Charles Haskins,* **Smith,** *Hugh M.*, & **Harris,** *William C.* Salmon and trout. New York, 1902. x, 417 p. figs. 8°. 1902.1

Review in Amer. Naturalist, 1902, **37**, 125–126.

Sagemehl, *M.* Untersuchungen über die Entwicklung der Spinalnerven. Dorpat, 1882. 1882.1

—— Beiträge zur vergleichenden Anatomie der Fische. Morphol. Jahrb., 1884–91. 1884.1

i. Das Cranium von *Amia calva* L. Morph. Jahrb., 1884, **9**, 177–288. pl.
ii. Einige Bemerkungen über die Gehirnhäute der Knochenfische. *Ibid.*, 457–474.
iii. Das Cranium der Characiniden nebst allgemeinen Bemerkungen über die mit einem Weber'schen Apparat versehenen Physostomenfamilien. *Ibid.*, 1885, **10**, 1–119. 2 pls. & fig.
iv. Das Cranium der Cyprinoiden. *Ibid.*, 1891, **17**, 489–595. 3 pls.

—— Ueber die Pharyngealtaschen der Scarinen und das "Wiederkäuen" dieser Fische. Morphol. Jahrb., 1885, **10**, 193–203. fig. 1885.1

—— Die accessorischen Branchialorgane von Citharinus. Morphol. Jahrb., 1886, **12**, 307–323. pl. 1886.1

Sagemehl, *M.*, & **Hubrecht,** *A. A. W.* *See* **Hubrecht & Sagemehl.**

Sagot, *Paul Antoine* [1821–1888] De la chasse et la pêche à la Guyane. Cluny, 1874. 12 p. 8°. 1874.1

Sagra, *Ramon de la* [1801–1871] Histoire physique, politique et naturelle de Cuba. 12 vols. & atlases. Paris, 1838 [*i. e.* 1839]–57. 8° & fol. 1853.1

Pt. ii, Histoire naturelle. Poissons, par A. Guichenot, 206 p. 5 col. pls. 1853.

—— Historia física, política y natural de la isla de Cuba. 13 vols. Paris, 1839–61. 1853.2

Issued simultaneously with the French edition. Pt. ii, Historia natural. Tom. iv, Reptiles y peces. The part on fishes, by A. Guichenot, was published in 1853.

—— Introduction de la pisciculture en Espagne: extrait d'un rapport. Bull. Soc. Acclim. Paris, 1857, **4**, 438–442. 1857.1

Sailer, *E.* Plaudereien über den Barsch. Schweiz. Fischerei Zeitg., 1895, **3**, 113. Also separate; Pfäffikon-Zürich, 1895. 2 p. 8°. 1895.1

Sailly, —— *Joly de.* *See* **Joly de Sailly,** ——

Saint-Amans, *Jean Florimond Boudon de* [1748–1831] Lettre sur un poisson trouvé dans une huître. Journ. de Physique, 1778, **12**, 276–278. figs. 1778.1

St. Barnes, *A.*, & **Vincent,** *Swale.* *See* **Vincent & St. Barnes.**

Saint-Cyr, —— Sur un parasite de la tanche. Lyon Méd., 1877, **24**, 527–530. 1877.1

Saint-Hilaire, *Augustin François César P. de* [1779–1853] Sur le minhocâo des Goyanais [Lepidosiren] C. R. Acad. Sci. Paris, 1846, **23**, 1145–1147. — L'Institut, **14**, no. 678, 435. — Edinb. New Phil. Journ., **42**, 278–281. — Amer. Journ. Sci., 2. ser. **4**, 130–131. — Notizen (Froriep), 3. ser. **1**, no. 13, 198–200. — Ann. Mag. Nat. Hist., **19**, 140–141. 1846.1

Saint-Hilaire, *Etienne Geoffroy.* *See* **Geoffroy Saint-Hilaire,** *Etienne.*

Saint-Hilaire, *Isidore Geoffroy.* *See* **Geoffroy Saint-Hilaire,** *Isidore.*

St. John, *Orestes H.* Descriptions of fossil fishes from the upper Coal Measures of Nebraska. Proc. Amer. Phil. Soc., 1870, **11**, 431–437. 1870.1

Cladodus, Diplodus, Petalodus, Peripristis, Chomatodus, Xystrodus and Deltodus.

—— Descriptions of fossil fishes from the upper Coal Measures of Nebraska. Rept. U. S. Geol. Surv. Nebraska, 1872, 239–245. 3 pls. & 18 figs. 1872.1

—— Descriptions of dental plates of Dinichthys and Edestus (In Eastman, C. R. Some hitherto unpublished observations of Orestes St. John on Palæozoic fishes. Amer. Naturalist, 1902, **36**, 653–659. 4 figs.) 1902.1

St. John, *Orestes H.*, & **Worthen,** *A. H.* Descriptions of fossil fishes. Geol. Surv. Illinois, 1875, **6**, 245–488. 22 pls. 1875.1

Contains descriptions and figures of fossil fishes of the Carboniferous and Subcarboniferous, especially of Illinois.

—— Descriptions of fossil fishes; a partial revision of the cochliodonts and psammodonts, including notices of miscellaneous material acquired from the Carboniferous formations of the United States. Geol. Surv. Illinois, 1883, **7**, 55–264. 26 pls. 1883.1

Saint-Joseph, —— *de.* Note sur les œufs du *Gobius minutus,* var. *minor* Heincke (*Gobius microps* Krøyer) Bull. Soc. Philom. Paris, 1881, 7. sér. **5**, 30–31. 1881.1

—— Note complémentaire sur les œufs du *Gobius minutus* L., var. *minor* Heincke (*Gobius microps* Krøyer) et remarques sur quelques autres œufs de poissons osseux. Bull. Soc. Philom. Paris, 1893, 8. sér. **5**, 189–195. 1893.1

Saint-Paul, *G. Delpéré de Cardaillac de.* Sur la faune ichthyologique du bassin de l'Adour. C. R. Acad. Sci. Paris, 1902, **134**, 851–853. 1902.1

15 species of teleosts are noted.

—— La réglementation de la pêche de l'anguille. Bull. Stat. Piscicult., Toulouse-Paris, 1905, **2**, 40–43. 1905.1

—— Considérations biologiques et juridiques sur le repeuplement artificiel des cours d'eaux. Bull. Stat. Piscicult. Hydrobiol., Toulouse, 1906, no. 4, 1–16. 1906.1

St. Sihleanu, *Stefano.* De' pesci elettrici e pseudo-elettrici (Dissertazione per ottenere la laurea in scienze naturali) Naples, 1876. 108 p. pl. 1876.1

Sainte-Claire Deville, *Charles Joseph* [1814–1876] Coup d'œil historique sur la géologie et sur les travaux d'Elie de Beaumont. Paris, 1878. 8°. 1878.1

Sainville, *E. de.* Observations sur les mœurs du poisson-chat. Bull. Soc. Acclim. Paris, 1908, **55**, 38–40. 1908.1

Sakussen, *S.* Ueber die Nervenendigung am Verdauungskanal der Fische. St. Petersburg, 1898. 20 p. 1898.1

Sala, *Luigi.* Sulla fina struttura del Torus longitudinalis nel cervello dei Teleostei. Boll. Soc. Medic. Pavia, 1895, 15 p. 5 figs. — Arch. Ital. Biol., **24**, 78–88. 5 figs. 1895.1

—— Sulla distribuzione delle fibre nelle pareti del ventricolo del cuore dei pesci (Teleostei) Rendic. Istit. Lombardo, 1910, 2. ser. **43**, 825–829. 1910.1

Sala y Pons, *Cl.* La neuroglia de los vertebrados. Inaug. Dissert. Madrid, 1894. 1894.1

Salas, *J. de,* & **García Solá,** *F.* (*editors*) Memoria sobre la industria y legislación de pesca que comprende desde el año 1870 al 1874, redactada . . . por . . . J. de Salas y . . . F. García Solá. Madrid, 1876. lxi, 741 p. illust. 8°. 1876.1

Salbey, *R.* Ueber die Structur und das Wachsthum der Fischschuppen. Arch. Anat. Physiol., 1868, 729–749. 17 pls. 1868.1

—— Sur la structure et le mode de croissance des écailles chez les poissons. Abstract in Arch. Sci. Phys. Nat. Genève, 1869, n. s. **36**, 276–278. 1869.1

—— On the structure and mode of growth of the scales of fishes. Ann. Mag. Nat. Hist., 1870, 4. ser. **5**, 67–68. 1870.1

Salenius, *Johan Magnus.* Historiallinen kertomus Muolan eli Pyhäristin pitäjästä. Pitäjän kertomuksia III. Suom. Kirj. Seur. Toim., 1871, **47**, no. 3, 105. map. 1871.1

Salensky, *Wladimir.* *See* **Zalenskii,** *V. V.*

Salinas, *Emmanuele.* Sopra alcuni Miliobatidi fossili della Sicilia. Giorn. Soc. Sci. Nat. Palermo, 1901, **23**, 62–78. 2 pls. Review in Rivist. Ital. Paleont. 1901 (1902), **7**, pt. 1. 1901.1

Salis, *S. R. von.* Fischerei. Schweiz. Bundesrecht, 1893, **4**, 130. Also separate; Bern, 1893. 4 p. 8°. 1893.1

Salm-Horstmar, *Wilhelm Friedrich Carl August zu* [1799–1865] Ueber einen neuen Fisch [Gasterosteus sp.?] Arch. Naturgesch., 1860, 26. Jahrg., **1**, pt. 1, 119–120. — Ann. Mag. Nat. Hist., 3. ser. **6**, 391. 1860.1

—— Ueber eine monströse Forelle. Arch. Naturgesch., 1861, 27. Jahrg., **1**, 100. 1861.1

Salmo (*pseudon.*) Size and growth of Penobscot salmon. Chicago Field, 1879, **11**, 388. 1879.1

Salmon, *J.*, & **Anthony,** *R.* *See* **Anthony & Salmon.**

Salmon Roe (*pseudon.*) Mississippi shad and salmon. Forest & Stream, 1879, **12**, 264. 1879.1

—— A truly black bass. Forest & Stream, 1879, **12**, 276. 1879.2

Salomon, *Karl.* Die Regenbogenforelle. Oesterr. Fischerei Zeitg., 1906, 3. Jahrg., 305–307. 1906.1

—— Zur Altersbestimmung des Huchens. Oesterr. Fischerei Zeitg., 1908, 5. Jahrg., 265–266. 1908.1

Salter, *G. H. Colton.* Pisciculture et élevage des animaux domestiques en Chine. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 791. 1874.1

—— Fish-culture on the Yang-Tse-Kiang — The samli or Chinese shad. Trans. Amer. Fisheries Soc. 1875 (1876), 34–38. — Forest & Stream, 1875, **4**, 100. 1876.1

Salter, *John William* [1820–1869] On the remains of fish in the Silurian rocks of Great Britain. Quart. Journ. Geol. Soc. London, 1851, **7**, 263–268. 3 figs. 1851.1

Onchus, Cochliodus-like tooth, supposed coprolites.

—— On the occurrence of a fish (Pteraspis) in the lower Ludlow rock. Ann. Mag. Nat. Hist., 1859, 3. ser. **4**, 44–48. 1859.1

—— Fish in the Devonian (not Old Red) rocks. Geol. Mag., 1867, **4**, 134; 232–233. 1867.1

Coccosteus, Phyllolepis, Cephalaspis.

—— On some tracks of Pteraspis (?) in the upper Ludlow sandstone. Quart. Journ. Geol. Soc. London, 1867, **23**, 333–339. figs. — Phil. Mag., **34**, 389–399. 1867.2

—— *Cephalaspis asterolepis* [*salwayi*] Trans. Woolhope Nat. Field Club 1868 (1869), 240. 2 pls. 1869.1

Salter, *J. W.*
—— Description of the *Pterygotus problematicus* Agass. Trans. Woolhope Nat. Field Club 1870 (1871), 171–172. 1871.1

Salter, *Thomas Frederick.* The angler's guide; or, complete London angler. Containing the whole art of angling as practised in the rivers Thames and Lea, and other waters twenty miles round London. Founded on actual experience. With the art of trolling for jack or pike. London, 1814. xvi, 152 p. 12°. 1814.1

—— The troller's guide. A new and complete practical treatise on the art of trolling or fishing for jack or pike. London, 1820. viii, 107 p. 18°. 1820.1

Salvadori, *Tommaso Adlard* [1835 —] Le date della pubblicazione della "Iconografia della fauna Italica" del Bonaparte ed indice della specie illustrate in detta opera. Boll. Mus. Zool. Anat. Comp. Univ. Torino, 1888, **3**, no. 48, 21–25. 1888.1

—— Relazione intorno alla memoria del Dott. Ermanno Giglio-Tos intitolata: "Sulle cellule del sangue della lampreda." Atti R. Accad. Sci. Torino, 1896, **31**, 731. 1896.1

Salvadori, *Tommaso Adlard,* & **Camerano,** *Lorenzo. See* **Camerano & Salvadori.**

Salverda, *Matthijs.* Nog iets over visschen-metamorphose. Album Natur, 1865 (Wetensch. bijblad.), 67. 1865.1
Form considered: *Zeus faber.*

Salvi, *Giunio.* Morfologia delle arterie della estremità addominale. 1. parte. Origine e significato delle arterie che vanno all' estremità (selaci, anfibi, rettili, uccelli) Studie Sassaresi, 1907, 2. ser. **5**, no. 1, 1–56. 1907.1

—— Origine e significato delle arterie dell' arto addominale. Monit. Zool. Ital., 1909, **20**, 74–75. 1909.1

Samarine, *C. A.* The fishes of the government Perm [Text in Russian] Bull. Soc. Oural. Sci. Nat., 1904, **24**, 47–66. 1904.1

Samassa, *Paul.* Ueber die Bildung der primären Keimblätter bei Wirbelthieren. Verh. Deutsch. Zool. Ges., 1895, **5**, 130–142. 1895.1

—— Studien über den Einfluss des Dotters auf die Gastrulation und die Bildung der primären Keimblätter der Wirbelthiere. I. Selachier. II. Teleostier. Arch. Entw.-Mech., Leipzig, 1896, **2**, 127–168. 3 pls. *Ibid.*, **3**, 191–218. 2 pls. 1896.1

Samo, *John.* Extracts of a letter containing information respecting the *Gymnotus electricus.* Trans. Electr. Soc. London, 1837–40, 163–164; 177; 188–190. — Proc. Electr. Soc. London, 1843, 258–260. 1837.1

Samsonov, *N. A.* Der Frühjahrsfang des Stintes mit Reusen am livländischen Ufer des Tschudskoje Osero [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1910, **25**, 51–102; 119–174; 201–241. 1910.1

Samter, *Max.* Das Messen toter und lebender Fische für systematische und biologische Untersuchungen. Arch. Hydrobiol. Planktonkunde, 1907, **2**, 143–185. 31 figs. Review in Biol. Centralbl., **27**, 414–416. 1907.1

—— Vier märkische Seen und die Beziehung zwischen Wassertemperatur und Tiergeographie in ihnen. Jahrb. Gewässerk. Berlin, 1912, **2**, 5. Heft, 1–4. 2 maps. 1912.1

Samter, *Max,* & **Weltner,** *W.* Beiträge zur Fauna des Madüsees in Pommern. Vorwort. Arch. Naturgesch., 1905, **71**, pt. 1, 135–137. 1905.1

Samuel, *Edward A.,* & **Arnold,** *A. See* **Arnold & Samuel.**

Sanchez-Comendador, *Antoni.* Catalech dels peixos observatos en el litoral de Barcelona. Bull. Inst. Catalana Hist. Nat., 1904, 2. ser. **1**, 25–32. 1904.1

Sanctis, *Leone de.* Sulla rete mirabile cranica e sul cervello della *Cephaloptera giorna* M. H. [*Dicerobatis giornae*] Rendic. Accad. Sci. Napoli, 1868, **7**, 13–16. 1868.1

—— Embriogenia degli organi elettrici delle torpedini e degli organi pseudo-elettrici delle raie e loro correlazioni anatomiche. Atti Accad. Sci. Napoli, 1873, **5**, 1–63. 4 pls. Abstract in Journ. Zool. (Gervais), 1873, **2**, 336–342. 1873.1

—— Morfologia delle appendici piloriche dei pesci ossei. Atti R. Accad. Lincei Roma, 1875, **2**, 793–840. 1875.1

—— Monografia zootomico-zoologica sul capidoglio arenato a Porto S. Giorgio. Mem. R. Accad. Lincei Roma, 1881, **9**, 160–242. 1881.1

Sanctis, *Leone de*, & **Panceri,** *Paolo*. *See* **Panceri** & **Sanctis.**

Sandager, *F.* Note on some sea-trout (salmon or salmon-trout?) Trans. New Zealand Inst., 1893, **25**, 254. 1893.1

Sandberger, *Carl Ludwig Fridolin von* [1826–1898] Ueber das Skelet von *Ceratodus kaupii* aus dem Würzburger Lettenkohlensandstein. Amtl. Ber. 50. Vers. Deutsch. Naturf., 1877, 155. 1877.1

—— Ueber *Ceratodus kaupii* aus der Lettenkohle bei Würzburg. Ber. Senckenberg. Naturf. Ges. 1877–78 (1879), 144–145. 1879.1

Sandeberg, *Hermano*. *Pleuronectes bogdanovii* descriptus. Bull. Soc. Nat. Moscou, 1878, **53**, pt. 2, 236–237. 2 figs. 1878.1

Sandeman, *F.* Angling travels in Norway. Natural history of the northern Salmonidæ. London, 1895. illust. 8°. 1895.1

Sandeman, *George*. On the multiple tumours in plaice and flounders; on a tumour from a tunny; on a parasitic skin-disease in Montagu's sucker; and on a cod with one eye. 11. Ann. Rept. Fishery Board Scotland, 1893, 291–394. figs. 1893.1

—— Notes on the physiology and pathology of fishes. 12. Ann. Rept. Fishery Board Scotland, 1894, 291–297. 1894.1

Sander, *Heinrich*. Beiträge zur Naturgeschichte der Fische im Rhein. Der Naturforscher, 1781, **15**, 163–183. 1781.1

—— Zur Naturgeschichte der Ruffolken, oder *Gadus lota* Linn. Carlsruhe, 1788. 1788.1

Sander, *Julius*. Ueber das Gehirn von *Acanthias vulgaris*. Sitzber. Ges. Naturf. Freunde Berlin, 1867, **8**, 26. 1867.1

Sanders, *Alfred*. Contributions to the anatomy of the central nervous system in vertebrate animals. Part I. Ichthyopsida. Section 1. Pisces. Phil. Trans. Roy. Soc. London, 1878, no. 22, 735–776. 8 pls. 1878.1

—— Contributions to the anatomy of the central nervous system in vertebrate animals. Subsection I. Teleostei. Appendix. On the brain of the Mormyridæ. Abstract in Proc. Roy. Soc. London, 1882, **33**, 400–403. 1882.1

—— Contributions to the anatomy of the central nervous system in vertebrate animals. On the brain of the Mormyridæ. Phil. Trans. Roy. Soc. London, 1883, **173**, 927–959. 5 pls. 1883.1

—— Contributions to the anatomy of the central nervous system in vertebrate animals. Plagiostomata. Phil. Trans. Roy. Soc. London, 1887, **177**, 733–766. 4 pls. 1887.1

—— Contributions to the anatomy of the central nervous system in vertebrated animals. Part I. Ichthyopsida . . . On the brain of the *Ceratodus forsteri*. Proc. Roy. Soc. London, 1888, **43**, no. 264, 420–424. 1888.1

—— Contributions to the anatomy of the central nervous system in *Ceratodus forsteri*. Ann. Mag. Nat. Hist., 1889, 6. ser. **3**, 157–188. 5 pls. 1889.1

—— Researches in the nervous system of *Myxine glutinosa*. London, 1894. 44 p. 8 pls. 4°. 1894.1

Sanderson, (*Sir*) *John Scott Burdon* [1828–1905] The discoveries of the past half century relating to animal motion. Rept. Brit. Assoc. Adv. Sci., 51. meet., 1881, 705–715. 1881.1

—— Some electrical fishes. Ann. Mag. Nat. Hist., 1887, 5. ser. **20**, 441–443. 1887.1

Sanderson, (*Sir*) *John Scott Burdon*, & **Gotch,** *Francis*. On the electrical organ of the skate. Journ. Physiol., 1888, **9**, 137–166. 3 figs. *Ibid.*, 1889, **10**, pt. 2, 259–278. 1888.1

—— Further investigations on the function of the electrical organ of the skate. Journ. Mar. Biol. Assoc., 1889–90, n. s. **1**, 74. 1889.1

Sandfort, —— Salmonidenzucht in Grossbritannien. Deutsch. Fischerei Zeitg., 1891–92. 1891.1

Sandman, *Jonas Albert*. Fredning af fisk. Fiskeritidskr. Finl., 1892, **1**, 123. 1892.1

—— Gåfvor till fiskerimuseet. Fiskeritidskr. Finl., 1892, **1**, 208–209. 1892.2

—— Laxfisket i Kumo elf. Fiskeritidskr. Finl., 1892, **1**, 124. 1892.3

—— Om karpodling i norden. Fiskeritidskr. Finl., 1892, **1**, 69–76. 1892.4

Sandman, *J. A.*

—— Orsakerna till fiskens utdöende under stränga vintrar. Fiskeritidskr. Finl., 1892, **1**, 40–45. 1892.5

—— Riklig laxfångst. Fiskeritidskr. Finl., 1892, **1**, 123. 1892.6

—— Anteckningar om fiskeriförhållandena inom Valkjärvi socken. Fiskeritidskr. Finl., 1893, **2**, 17–20. 1893.1

—— Bestyrelsens för fiskeriföreningen i Finland redogörelse öfver föreningens värksamhet från den 19. mars 1892 till den 28. mars 1893. Fiskeritidskr. Finl., 1893, **2**, 54–57. 1893.2

—— Ett och annat om ålen. Fiskeritidskr. Finl., 1893, **2**, 133–140. 1893.3

—— Gåfvor till fiskerimuseet. Fiskeritidskr. Finl., 1893, **2**, 129. 1893.4

—— Odling af sik och mujka. Fiskeritidskr. Finl., 1893, **2**, 177–178. 1893.5

—— Premier för plantering af fisk. Fiskeritidskr. Finl., 1893, **2**, 13–14. 1893.6

—— Rikligt braxenfiske. Fiskeritidskr. Finl., 1893, **2**, 106. 1893.7

—— Amerikanska fiskarter i Finland. Fiskeritidskr. Finl., 1894, **3**, 175–177. — Tidskr. Jägare & Fisk., 1895, **3**, 34–35. 1894.1

—— Anteckningar från ett besök vid M. Hirns fiskkonserveringsanstalt i Säkkijärvi. Fiskeritidskr. Finl., 1894, **3**, 17–21. 1894.2

—— Gåfva till fiskerimuseet [*Ammodytes lancea*] Fiskeritidskr. Finl., 1894, **3**, 196. 1894.3

—— Om norsfisket vintertid i Säkkijärvi och kringliggande trakter. Fiskeritidskr. Finl., 1894, **3**, 105–107. fig. 1894.4

—— Premier för plantering af fisk. Fiskeritidskr. Finl., 1894, **3**, 27–28. 1894.5

—— Stor gädda. Fiskeritidskr. Finl., 1894, **3**, 113. 1894.6

—— Fiskodlingen i landet. Fiskeritidskr. Finl., 1895, **4**, 150–151; 174–175. 1895.1

—— Fiskplantering. Fiskeritidskr. Finl., 1895, **4**, 31. 1895.2

—— Några ord om fiskdammanläggningen vid Kyrkstad i Lojo. Fiskeritidskr. Finl., 1895, **4**, 157–163. 8 figs. 1895.3

—— Spiggarne och spiggfisket. Fiskeritidskr. Finl., 1895, **4**, 107–113. 1895.4

—— Storbassen i Finland. Fiskeritidskr. Finl., 1895, **4**, 176. 1895.5

—— Utplantering af rödingyngel. Fiskeritidskr. Finl., 1895, **4**, 103. 1895.6

—— Fiskodlingen i landet. Fiskeritidskr. Finl., 1896, **5**, 204–205. 1896.1

—— Fiskplantering. Fiskeritidskr. Finl., 1896, **5**, 116. 1896.2

—— Gåfvor till fiskerimuseet. Fiskeritidskr. Finl., 1896, **5**, 100. 1896.3
Lota vulgaris, Fœtorius lutreola.

—— Mujkfisket i Wiitasaari. Fiskeritidskr. Finl., 1896, **5**, 187. 1896.4

—— Gåfvor till fiskerimuseet. Fiskeritidskr. Finl., 1897, **6**, 37; 139. 1897.1

—— Premier för plantering af värdefulla fiskslag. Fiskeritidskr. Finl., 1897, **6**, 16–17. 1897.2

—— Anteckningar om laxfiskeförhållandena i Kemi elfs öfre lopp. Fiskeritidskr. Finl., 1898, **7**, 21–26. 1898.1

—— En interessant hafsfisk och dess historie [*Lopholatilus chamæleonticeps*] Fiskeritidskr. Finl., 1898, **7**, 128–130. 1898.2

—— Laxfisket i Ijo elf. Fiskeritidskr. Finl., 1898, **7**, 130. 1898.3

—— Laxfisket i Kumo elf. Fiskeritidskr. Finl., 1898, **7**, 131. 1898.4

—— Om märkning af Östersjölax. Fiskeritidskr. Finl., 1898, **7**, 38–42. 1898.5

—— Premier för fiskplantering. Fiskeritidskr. Finl., 1898, **7**, 195–196. 1898.6

—— Utplantering af flundra i Vesijärvi. Fiskeritidskr. Finl., 1898, **7**, 130. 1898.7

—— Gösodlingsförsök i Tavastland sommaren 1899. Fiskeritidskr. Finl., 1899, **8**, 126–129. 1899.1

—— Sällsynt fisk [*Scomber scombrus*] Fiskeritidskr. Finl., 1899, **8**, 198. 1899.2

—— Om laxfisket i Siikajoki elf och förslag till dess upphjelpande. Fiskeritidskr. Finl., 1900, **9**, 141–145. — Tidskr. Jägare & Fisk., 1900, **8**, 216–220. 1900.1

—— Einiges über Fischverpflanzungen in Finland, bewerkstelligt durch die Landsbevölkerung. Congr. Intern. Pêche Piscicult. St. Pétersb., 1903, pt. 1, 154–161. 1903.1

—— Ichthyologiska meddelanden. Meddel. Soc. Fauna & Flora Fenn., 1904, **30**, 98–99. 1904.1

—— Varlekande sik [Im Frühling laichender *Coregonus lavaretus*] Fiskeritidskr. Finl., 1904, **13**, 150. 1904.2

—— Fångst af sällsyntare fiskarter [*Belone vulgaris* und *Alosa finta* in Finland gefangen] Fiskeritidskr. Finl. 1905, **14**, 38. 1905.1

—— Fångst af sällsyntare fiskart [*Onos cimbrius* L. im finnischen Meerbusen] Fiskeritidskr. Finl., 1905, **14**, 160. 1905.2

—— Forskens storlek i finska vatten [Die Grösse des Dorsches in finländischen Gewässern] Tidskr. Jägare Fisk., 1905, **13**, 119. 1905.3

—— Nya resultat af fiskodlingsförsöken vid Evois fiskeriförsöksstation [Neue Ergebnisse der Fischkulturversuche an der Fischereiversuchsstation Evois] Fiskeritidskr. Finl., 1905, **14**, 67–71. 1905.4

—— Två för vår fauna nya fiskarter. Meddel. Soc. Fauna Flora Fenn., 1905, **31**, 58–60. 1905.5

—— Bericht über die Tätigkeit der Kommission C_2 in der Periode Februar 1903–März 1906. 2. Kurzer Bericht über in Finnland ausgeführte Untersuchungen über den Flunder, den Steinbutt und den Kabeljau. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1906, **5**, 37–44. pl. 1906.1

—— Hermaphroditische Exemplare von *Clupea harengus*. Fiskeritidskr. Finl., 1906, **15**, 126–127. 1906.2

—— I Danmark märkt lax infangad i Finland [In Dänemark mit Marke versehener Lachs in Finland gefangen] Fiskeritidskr. Finl., 1906, **15**, 206–208. 1906.3

—— Kurzer Bericht über die in Finnland ausgeführten Untersuchungen. A. Ueber *Pleuronectes flesus*. B. Ueber *Rhombus maximus*. C. Ueber *Gadus callarias*. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1906, **5**, 37–44. 1906.4

—— Makrill i finska vatten [*Scomber scombrus* L. in finländischen Gewässern] Fiskeritidskr. Finl., 1906, **15**, 127. 1906.5

—— Rom och mjölke hos en och samma fisk [Hermaphrodites Exemplar von *Clupea harengus* L. var. *membras* L.] Fiskeritidskr. Finl., 1906, **15**, 126–127. 1906.6

—— Störar fångad i finska viken [*Acipenser sturio* L. im Finnischen Meerbusen gefangen] Fiskeritidskr. Finl., 1906, **15**, 234–235. 1906.7

—— I Finland märkt lax åter fångad vid tyska Östersjökusten [In Finland markierter lachs an der deutschen Ostseeküste wiedergefangen] Fiskeritidskr. Finl., 1907, **16**, 158–159. 1907.1

—— Huru laxen tillväxer [Ueber den Zuwachs des Lachses] Fiskeritidskr. Finl., 1907, **16**, 248. 1907.2

—— Lohenvælluksia [Die Wanderungen der Lachse] Luonnon Ystävä, Helsingfors, 1907, **11**, 13–14. 1907.3

—— Makrill fångad i Finland [*Scomber scombrus* in Finland gefangen] Fiskeritidskr. Finl., 1908, **17**, 182. 1908.1

—— Infångad märkt lax [Fang eines markierten Lachses] Fiskeritidskr. Finl., 1909, **18**, 343. 1909.1

—— Lake med rom och mjölke [Hermaphroditisches Exemplar von *Lota vulgaris*] Fiskeritidskr. Finl., 1909, **18**, 90. 1909.2

—— Alutplanteringarna år 1911. Fiskeritidskr. Finl., 1911, **20**, 93–94. 1911.1

Sañez Reguart, *Antonio.* Diccionario histórico de los artes de la pesca nacional. 5 vols. Madrid, 1791. illust. fol. 1791.1

Incorrectly listed under the name of **Reguart,** *Antonio Sañez.*

Sanfelice, *F.* Spermatogenèse des vertébrés. Cinquième partie. Spermatogenèse des poissons. Arch. Ital. Biol., 1888, **10**, 112–117. pl. Extract in Boll. Soc. Nat. Napoli, **2**, 79–83. pl. 1888.1

—— Intorno all' appendice digitiforme (glandola soprarenale) dei selaci. Napoli, 1889. 3 pls. 1889.1

Sanford, *Edmund Clark.* The psychic life of fishes. Intern. Quarterly, 1903, **7**, no. 2, 316–383. 1903.1

Sangiorgi, *Domenico.* Nuove forme di pesci fossili del Paranà. Rivist. Ital. Paleont., 1901, **7**, 62–68. pl. 1901.1

—— Sopra un avanzo fossile proveniente dalle argille scagliose. Rivist. Ital. Paleont., 1902, **8**, 117–119. 2 figs. 1902.1

Santi-Linari, —— Nouvelle note sur les effets électriques de la torpille. C. R. Acad. Sci. Paris, 1837, **4**, 520–521. — Notizen (Froriep), **2**, 209–211. — Poggend. Annal., **40**, 642–644. 1837.1

—— Sulle proprietà elettriche ed elettrofisiologiche della torpedine. Ann. Sci. Lomb. Veneto, 1837, **7**, 128–130. — C. R. Acad. Sci. Paris, **4**, 520–521. 1837.2

—— Vera scintilla elettrica, effetti d' elettrica tensione, di proprietà chimica e calorifica ottenuti dalla scossa della torpedine. Osservazioni sopra le proprietà elettriche, ed elettrofisiologiche della stessa torpedine. Giorn. Accad. Sci., 1837, **70**, 50–71. — Bibl. Univ., **8**, 394–408. 1837.3

—— Cenni di nuove indagini sulle proprietà elettriche della torpedine. Bibl. Ital., 1838, **92**, 258–264. — Bibl. Univ., **18**, 155–165. — Notizen (Froriep), **9**, 225–232. 1838.1

—— Anelli colorati ottenuti su le lamine metalliche per mezzo delle scariche della torpedine. Bibl. di Farm. (Cattaneo), 1839, **11**, 143–145. 1839.1

—— Scintilla ed altri fenomeni d' elettriche correnti, ottenuti per azione induttiva dell' elettriche scariche del pesce torpedine [*Raja torpedo*] Bibl. di Farm. (Cattaneo), 1839, **11**, 83–91. 1839.2

Santini, *E.* La voix des poissons. Le Naturaliste, 1898, **20**, 274–275; 289–290. 1898.1

—— La voix des poissons (suite) Le Naturaliste, 1899, **21**, 12–14. 1899.1

Sanzo, *Luigi.* Uova e larve di murenoidi. Atti Accad. Peloritana, 1905, **19**, pt. 2. 5 p. 1905.1

—— Uova e larve di *Auxis bisus.* Monit. Zool. Ital., 1909, **20**, 79–80. 1909.1

—— Embrione di *Carcharadon rondeletii* M. Henle, con particolare disposizione del sacco vitellino. Mem. R. Comit. Talassog. Ital., 1910, **11**, 1–10. 2 pls. 1910.1

—— Studî sulla biologia del tonno (*Orcynus thynnus*) Rivist. Mens. Pesca, Pavia, 1910, 5. ser. **12**, 1–15. — Boll. Uff. Miner. Agric., 3. ser. **1**, 40–45. 1910.2

—— Uovo e larva di pesce-spada, *Ziphias gladius* L. Rivist. Mens. Pesca, Pavia, 1910, 5. ser. **12**, 206–209. 1910.3

—— Uova e larve di scomberoidi. Rivist. Mens. Pesca, Pavia, 1910, 5. ser. **12**, 201–205. — Boll. Miner. Agric. Indus. Comm., Roma, **9** (**2**, ser. C, pt. 12), 3 p. 1910.4

—— Distribuzione delle papille cutanee (organi ciatiformi) e suo valore sistematico nei gobi. Mitt. Zool. Stat. Neapel, 1911, **20**, 251–328. 4 pls. & 15 figs. 1911.1

—— Comparsa degli organi luminosi in una serie di larve di *Gonostoma denudatum* Raf. Mem. R. Comit. Talassog. Ital., 1912, **9**, 1–24. pl. 1912.1

—— Larva di *Stomias boa* Risso. Mem. R. Comit. Talassog. Ital., 1912, **10**, 1–6. pl. 1912.2

—— Uova di Sternoptychidæ. Boll. Bimestr. R. Comit. Talassog. Ital., 1912, 384–386. 1912.3

—— Contributo alla conoscenza dello sviluppo embrionale degli Scopelini Müller (*Saurus griseus* Lowe, *Chlorophthalmus agassizii* Bp., *Anlopus filamentosus* Cuv.) Rendic. Accad. Lincei, 1915, 5. ser. **24**, 1. sem., 460–464. 1915.1

—— Notizie ittiologiche. Monit. Zool. Ital., 1915, **26**, 131–144. 1915.2

i. Sulle cause determinanti l' approfondimento delle uova di Teleostei in sviluppo.
ii. Stadi larvali di *Stomias boa* Risso.
iii. Stadi larvali di *Bathophilus nigerrinus* Gigl.
iv. *Stylophthalmoides lobiancoi* e *S. mediterraneus* Mazzarelli sono rispettivamente le forme larvali di *Scopelus caninianus* e *Scopelus humboldti.*
v. Stadi larvali di *Chauliodus sloani* Bl.

Saporta, *Louis Charles Joseph Gaston de* [1823–1895] Notice sur les plantes fossiles du niveau des lits à poissons de Cerin. Ann. Soc. Agricult. Hist. Nat. Lyon, 1873, 4. sér. **5**, 87–142. 1873.1

Sappey, *Marie Philibert Constant* [1810–1896] Etudes sur l'appareil mucipare et sur le système lymphatique des poissons. Paris, 1880. 64 p. 12 pls. fol. 1880.1

—— Recherches des conduits mucipares et des vaisseaux lymphatiques chez les poissons. Guide du Naturaliste (Bouvier), 1880, 2. année, 54–56. 1880.2

Sarasin, *F.* Exhibit of *Protopterus annectens,* which had just left its burrow. Arch. Sci. Nat., Genève, 1905, **20**, 594–595. 1905.1

Sarasin, *P.* Ueber die Theorie des Mesoderms von C. Rabl. Anat. Anz., 1889, 4. Jahrg., no. 23, 721–728. 1889.1

Mesoderm in Amphioxus.

Sarato, —— Notes sur les poissons de Nice. Nice, 1890. 1890.1

Sargent, *Porter Edward.* The giant ganglion cells in the spinal cord of *Ctenolabrus adspersus* (Walb.-Goode) Journ. Comp. Neurol., 1898, **8**, 183–194. 5 figs. 1898.1

—— The giant ganglion cells in the spinal cord of *Ctenolabrus cœruleus.* Anat. Anz., 1898, **15**, 221–225. 10 figs. 1898.2

—— Reissner's fibre in the canalis centralis of vertebrates. Science, 1900, n. s. **11**, no. 266, 180. — Anat. Anz., **17**, 33–44. 3 pls. & fig. 1900.1

—— The development and function of Reissner's fibre and its cellular connections. A preliminary paper. Proc. Amer. Acad. Arts & Sci., 1901, **36**, no. 25, 446–452. 1901.1

—— The ependymal grooves in the roof of the diencephalon of vertebrates. Science, 1903, n. s. **17**, no. 430, 487. 1903.1

—— The torus longitudinalis of the teleost brain: its ontogeny, morphology, phylogeny and function. Mark Annivers. Vol., 1903, 399–415. pl. Review in Science, n. s. **17**, no. 424, 253–254. 1903.2

—— The optic reflex apparatus of vertebrates for short-circuit transmission of motor reflexes through Reissner's fibre; its morphology, ontogeny, phylogeny and function. Part I. The fish-like vertebrates. Bull. Mus. Comp. Zool. Harv. Coll., 1904, **45**, 129–258. 11 pls. & 13 figs. 1904.1

Sargent, *W. H.* Statement concerning the menhaden fisheries. Rept. U. S. Fish Comm. 1877 (1879), **5**, 373. 1879.1

Sars, *Georg Ossian* [1837 —] Om vintertorskens (*Gadus morrhua*) forplantning og udvikling. Forh. Vidensk. Selsk., 1865. 15 p. 1865.1

—— Om vintertorskens (*Gadus morrhua*) forplantning og udvikling. Forh. Vidensk. Selsk., 1866, 237–249. 1866.1

—— Indberetning [til Indre departementet] om de af mig i aarene 1866 og 1867 anstillede undersøgelser over skreiens eller vintertorskens [*Gadus morrhua*] yngel. Christiania, 1868. 4°. 1868.1

—— Om enkette havfiskes gyden i aabent hav. Fiskeritidskr. Finl., 1868, 2. Jahrg., 119–122. 1868.2

—— Quelques remarques sur le développement des poissons marins. Abstract in Arch. Sci. Phys. Nat. Genève, 1868, n. s. **32**, 255–256. 1868.3

—— Remarks on the development of marine fishes. Ann. Mag. Nat. Hist., 1868, 4. ser. **2**, 389–390. 1868.4

—— Indberetninger til departement for det Indre om de af ham i aarene 1864–69 anstillede praktiskevidenskabelige undersögelser over torskefiskeriet ved Lofoten [Reports of the Department of the Interior concerning practical scientific investigations of the cod fishery at Lofoten during the years 1864–69] Christiania, 1869. 61 p. 8°. Abstract, in Rept. U. S. Fish Comm. 1877 (1879), **5**, 565. 1869.1

—— Om fiskens aftagen i Christianiafjorden. Morgenbladet, Christiania, 1870, no. 59. 1870.1

—— Indeberetning om de af ham i sommeren 1870 anstillede fortsatte undersögelser over torskefiskeriet ved Lofoten [Report on continued investigations of the cod fishery at Lofoten during the summer of 1870] Christiania, 1871. 27 p. 8°. 1871.1

—— Indberetning til departementet for det Indre om de af ham i sommeren 1872 anstillede praktisk-videnskabelige undersøgelser angaaende saltvandsfiskerierne. Morgenbladet, Christiania, 1872, no. 298. 1872.1

—— Indberetninger om de i aarene 1870–73 anstillede fortsatte undersögelser over saltvandsfiskerierne. 2 karter [Reports on continued investigations of the salt water fisheries during the years 1870–73. 2 maps] Christiania, 1874. 1874.1

Sars, *G. O.*

—— On the spawning and development of the codfish. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 213–222. 1876.1

—— Remarks on the seal fisheries, and on some of the fish of the North sea, in the account of the Norwegian Expedition of 1876. Nature, 1877, **15**, 435. 1877.1

—— Fischerei-Beobachtungen in der Nordsee 1876. Circul. Deutsch. Fischerei Ver. 1877 (1878), no. 2, 25–30. 1878.1

—— Indberetninger om de af ham i aarene 1874–77 anstillede undersögelser vedkommende saltvandsfiskerierne [Reports on continued investigations of the salt water fisheries during the years 1874–77] Christiania, 1878. 59 p. 8°. 1878.2

—— Indeberetninger om de under Atlanterhavs expeditionen 1878 anstillede zoologiske og praktiskvidenskabelige undersögelser [Reports on zoölogical and practical scientific investigations under the Atlantic expedition of 1878] Christiania, 1879. 1879.1

—— Indberetninger til departementet for det Indre, om de af ham i aarene 1864–1878 anstillede undersøgelser angaaende saltvandsfiskerierne. Christiania, 1879. 221 p. 8°. 1879.2

—— Indberetning om de af ham in aaren 1879 anstillede praktisk-videnskabelige undersögelser over loddefisket i Finmarken [Report on practical scientific investigations concerning the lodde in Finmark during the spring of 1879] Christiania, 1879. 32 p. 8°. 1879.3

—— Indberetning til departementet for det Indre om de under sidste Nordhavsexpedition anstillede praktiske og videnskabelige undersøgelser vedkommende fiskerierne. Morgenbladet, Christiania, 1879, no. 31 B. 1879 4

—— Report of practical and scientific investigations of the cod fisheries near the Loffoden islands, made during the years 1864–69. Rept. U. S. Fish Comm. 1877 (1879), **5**, 565–611. 1879.5

—— Report of practical and scientific investigations of the cod fisheries near the Loffoden islands, made during the years 1870–1873. Rept. U. S. Fish Comm. 1877 (1879), **5**, 612–661. 1879.6

—— Reports made to the Department of the Interior of investigations of the salt-water fisheries of Norway during the years 1874–1877. Rept. U. S. Fish Comm. 1877 (1879), **5**, 663–705. 1879.7

—— Die norwegische Nordsee-Expedition in 1877 (In his Königl. Norwegische Regierung betreffend die praktisch-wissenschaftlichen Untersuchungen bezüglich der Salzwasserfischereien. Deutsch. Fischerei Zeitg., 1880, 1. Jahrg., 145–146; 165–166; 181–182) 1880.1

—— Report on the Norwegian deep-sea expedition of 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 257–281. 1880.2

—— Report submitted to the Department of the Interior on the practical and scientific investigations of the Finmark Capelan-Fisheries [*Osmerus arcticus*] made during the spring of the year 1879. Rept. U. S. Fish Comm. 1880 (1883), **8**, 167–187. 1883.1

—— Indberetning om de af ham i sommeren 1888 anstillede praktisk-videnskabelige undersögelser vedkommende saltvandsfiskerierne samt angekande hvalfredningen i Finmarken [Report on continued practical scientific investigation of the salt-water fisheries and also whale fishing in Finmarken, during the summer of 1888] Christiania, 1888. 1888.1

—— Praktisk-videnskabelige undersögelser af Trondhjemsfjorden. Indberetning til departementet for det Indre [Practical scientific investigations of the Trondhjem bays. Report of the Department of the Interior] Christiania, 1891. 1891.1

—— Fortsatte praktisk-videnskabelige undersögelser af Trondhjemsfjorden [Further practical scientific investigation of the Trondhjem bays] Christiania, 1892. 1892.1

—— Om Brislingen og Brisling fisket. Indberetning til departementet for det Indre [On Brislingen and Brisling fisheries. Report of the Department of the Interior] Christiania, 1894. 1894.1

Sars, *Georg Ossian,* **Landmark,** *A.,* & **Rasch,** *H.* *See* **Rasch, Landmark & Sars.**

Sars, *Michael* [1805–1869] Bemærkninger over det Adriatische havs fauna sammenlignet med Nordhavet. Christiania, 1850. 31 p. 8°. 1850.1

—— Bidrag til kundskap om Middelhavets littoral-fauna. Christiania, 1856–57. 4 pls. 8°. 1856.1

—— The fossiliferous nodules in the post-Tertiary clay of Norway. Geol. Mag., 1864, **1**, 158–161. 1864.1

—— Om *Lycodes gracilis*, en ny norsk fisk; og om fossiler i glaciale mergelboller fra Stjørdalen. Forh. Vidensk. Selsk. Christiania, 1867, **9**, 40–51. 1867.1

Sartell, *William S.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 391. 1879.1

Sasse, *Adolf.* Chinesische Telescopfische. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 303–304. fig. 1878.1

—— Ueber die Zucht der chinesischen Grossflosser, *Macropodus venustus* [*Polyacanthus viridi-auratus*] Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 183–185; 190–191. fig. 1878.2

Sassenhagen, *Karl.* Aus Hinterpommern. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 286–287. 1878.1

Sassi, *Agostino.* De' pesci del mare di Genova. Nuov. Ann. Sci. Nat. Bologna, 1846, 2. ser. **6**, 386–393. 1846.1

—— Saggio sopra i pesci, rettili e mammiferi della Liguria. Quadro descrittivo per 8. riunione, Genova, 1846. 41 p. 1846.2

Satchell, *Thomas* [— 1887] For notice of his editorial and bibliographical work in connection with angling literature, *see* Sage, D. The Ristigouche, etc., p. 268–269. Edinburgh, 1888.

—— Provisional index to a glossary of fish names. Circulated for the purpose of obtaining additions and corrections, and more especially, of determining the places where these names are now in use. London, 1879. 12 p. 8°. 1879.1

—— The bibliography of Izaak Walton's Compleat angler. London, 1882. 23 p. 4°. 1882.1

An excerpt from the "Bibliotheca piscatoria" of Westwood and Satchell, printed for presentation only.

—— (*editor*) A booke of fishing with hooke and line, by Leonard Mascall. Reprinted from the edition of 1590 and edited, with preface and glossary, by Thomas Satchell. London, 1884. x, 52 p. 8°. 1884.1

The first part contains the "Treatyse of fysshynge with an angle," from the Book of St. Albans, first printed *circa* 1500, and attributed to Dame Barnes.

Satchell, *Thomas,* & **Westwood,** *Thomas. See* **Westwood** & **Satchell.**

Satunin, *Konstantin Aleksyeevich.* Skizzen zur Naturbeschreibung des Kaukasus. Am Ufer des Kaspischen Meeres [Text in Russian] Schluss. Jestestv. Geogr., Moskva, 1907, **12**, pt. 3, 1–15. 1907.1

—— Die Fischerei an der kaukasischen Küste des Schwarzen Meeres [Text in Russian] Trd. Jub. Akklim. Sjězda, Moskva, 1908, pt. 2 (*seck. ichthiol.*), 81–94. 1908.1

—— Ueber den gegenwärtigen Stand der Fischerei in den Seen des westlichen Transkaukasiens [Text in Russian] Trd. Jub. Akklim. Sjězda, Moskva, 1908, pt. 2 (*seck. ichthiol.*), 38–44. 1908.2

Sauer, —— Der Makropode und der Anfänger. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 226–228. fig. 1913.1

—— Auffallende Beobachtungen bei unseren Aquarienbewohnern. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 451–452. 1914.1

—— Pflege und Zucht von *Haplochilus cameronensis* var., von Cap Lopez. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 586–587. 1914.2

Sauerbeck, *Ernst.* Beiträge zur Kenntnis vom feineren Bau des Selachierhirns. Anat. Anz., 1896, **12**, 41–52. 9 figs. 1896.1

Saunders, *Howard* [1835–1907] Spawning of flying-fish. Zoologist, 1874, 2. ser. **9**, 3838–3839. 1874.1

Saunders, *James.* Notes on the fish of the upper Lea. Trans. Hertfordshire Nat. Hist. Soc., 1903, **11**, 119–120. 1903.1

Saunders, *John* [1827–1908] List of the books, memoirs and miscellaneous papers by . . . J. E. Gray. With a few historical notes. London, 1872–[75] 58 p. 8°. 1872.1

Saunders, *J. T.* A note on the food of freshwater fish. Proc. Cambridge Phil. Soc., 1913, **17**, 236–239. Abstract in Nature, 1913, **91**, 312. 1913.1

Saurén, *Herman.* Ett inlägg i frågan om storryssjan och dess begagnande. Fiskeritidskr. Finl., 1895, **4**, 73–74. 1895.1

—— Strödda anteckningar om fisket vid Porkkala. Fiskeritidskr. Finl., 1900, **9**, 113–115. 1900.1

Sauter, *Hans.* Notes from the Owston collection. I. A new ateleopodid fish (*Ijimaia dofleini*) from the Sagami sea. Annot. Zool. Japon., 1905, **5**, 233–238. fig. 1905.1

Sauvadon, *Gedden.* De l'utilité des crevettes d'eau douce et du véron, pour servir à l'alimentation de l'alevin de truites et de saumons. Bull. Soc. Acclim. Paris, 1867, 2. sér. **4**, 715–722. 1867.1

—— Note sur le brochet. Bull. Soc. Acclim. Paris, 1868, 2. sér. **5**, 738–742. 1868.1

—— [*Esox lucius*] Tidsskr. Fiskeri, 1870, 4. Jahrg., 106–109. 1870.1

Sauvage, *Henri Emile* [1844 —] For partial bibliography, *see* Notice sur les travaux ichthyologiques de M. le Dr. H.-E. Sauvage. Boulogne-sur-Mer, 1893. 18 p. 4°. — Deuxième notice sur les travaux scientifiques de M. le Dr. H.-E. Sauvage. Tours, 1894. 11 p. 4°. — Supplément, 1909.

—— Les poissons et les crustacés (In Brehm, A. E. Merveilles de la nature, vol. vi, p. 91–618. Paris, [1865] 4°) 1865.1

—— Catalogue des poissons des formations secondaires du Boulonnais. Boulogne-sur-Mer, 1867. 100 p. 4 pls. 8°. 1867.1

Bibliographie, p. 99–100. Review in Geol. Mag., 1869, **5**, 573–574.

—— Poissons fossiles du Boulonnais. Bull. Soc. Géol. France, 1868, 2. sér. **25**, 750–752. 1868.1

—— Note sur les poissons du calcaire de Ronzon, près le Puy-en-Velay. Bull. Soc. Géol. France, 1869, **26**, 1069–1075. 1869.1

—— Essai sur la pêche pendant l'époque du renne. Mém. Soc. Acad. Boulogne-sur-Mer, 1870–72, **4**, 267–276. 1870.1

—— Notice sur les poissons de Froidenfontaine (Haut Rhin) Bull. Soc. Géol. France, 1870, **27**, 397–410. 2 pls. 1870.2

—— Synopsis des poissons tertiaires de Licata (Sicile) Ann. Sci. Nat. (*Zool.*), 1870, 5. sér. **14**, art. 7. 1870.3

—— Note sur le gisement à poissons de Licata (Sicile) Bull. Soc. Géol. France, 1871, **28**, 180–183. — Boll. Com. Geol. Ital. Firenze, **3**, 206–209. 1871.1

—— De la terminaison de la colonne vertébrale chez les pleuronectes. C. R. Acad. Sci. Paris, 1872, **74**, 1118–1120. 1872.1

—— De la classification des poissons qui composent la famille des triglidés (Joues cuirassées de Cuvier et Valenciennes) C. R. Acad. Sci. Paris, 1873, **77**, 723–726. 1873.1

—— Mémoire sur la faune ichthyologique de la période tertiaire et plus spécialement sur les poissons fossiles d'Oran (Algérie) et sur ceux découverts par M. R. Alby à Licata en Sicile. Ann. Sci. Géol., 1873, **4**, no. 1. 1873.2

—— Note sur le *Sebastes minutus.* Ann. Sci. Nat. (*Zool.*), 1873, 5. sér. **17**, art. 5, 1 p. 1873.3

—— Notice sur les poissons tertiaires de l'Auvergne. Bull. Soc. Hist. Nat. Toulouse, 1873–74, **8**, 171–198. pl. 1873.4

—— Notice sur quelques poissons d'espèces nouvelles ou peu connues provenant des mers de l'Inde et de la Chine. Nouv. Arch. Mus. Nat. Hist. Paris, 1873, **8** (*Bull.*), 49–62. 2 pls. 1873.5

—— Sur la faune ichthyologique de l'époque tertiaire. C. R. Assoc. Franç. Avanc. Sci., 2. sess., 1873, 443–445. 1873.6

—— [Sur la présence dans gypses d'Aix d'un cotte, *Cottus aries*] Bull. Soc. Géol. France, 1873, 3. sér. **1**, 388. 1873.7

—— De la classification et de la distribution géographique des poissons du groupe des sébastes. C. R. Assoc. Franç. Avanc. Sci., 3. sess., 1874, 468–471. 1874.1

—— Etude sur les poissons du Lias supérieur de la Lozère et de la Bourgogne. Rev. Sci. Nat., 1874, **2**, 415–433. 2 pls. 1874.2

—— Le gourami. La Nature, 1874, **2**, 245–246. figs. 1874.3

—— Notices ichthyologiques. Rev. Mag. Zool., 1874, **2**, 332–340. 1874.4

—— Révision des espèces du groupe des épinoches. Nouv. Arch. Mus. Hist. Nat. Paris., 1874, **10**, 5–38. pl. 1874.5

—— Sur la faune ichthyologique de la période tertiaire, et sur les poissons fossiles d'Oran (Algérie) et de Licata (Sicile) Bull. Soc. Géol. Paris, 1874, **2**, 312–315. 1874.6

—— Essai sur la faune ichthyologique de la période liasique, suivi d'une notice sur les poissons du Lias de Vassy. Ann. Sci. Géol., 1875, **6**, no. 5. *Ibid.*, **7**, no. 1. 3 pls. 1875.1

—— Note sur le genre Nummopalatus et sur les espèces de ce genre trouvées dans les terrains tertiaires de la France. Bull. Soc. Géol. France 1874–75 (1875), 3. sér. **3**, 613–630.— Journ. Zool. (Gervais), 1876, **5**, 274–276. 2 pls. 1875.2

—— Note sur les poissons fossiles. Bull. Soc. Géol. France, 1875, 3. sér. **3**, 631–642. 2 pls. *Ibid.*, 1878, **6**, 623–637. 3 pls. *Ibid.*, 1880, **8**, 451–462. 2 pls. *Ibid.*, 1883, **11**, 475–503. pl. 1875.3

—— Poissons (In Grandidier, Alfred. Histoire physique, naturelle et politique de Madagascar, 1887–91, vol. xvi. 543 p. 61 pls. Paris, 1875–99. 4°) 1875.4

—— Sur la faune ichthyologique de l'île Saint-Paul. C. R. Acad. Sci. Paris, 1875, **81**, 987–989. 1875.5

—— On the ichthyological fauna of the island of St. Paul. Ann. Mag. Nat. Hist., 1876, 4. ser. **17**, 94–96. 1876.1

—— Sur quelques poissons des eaux douces du Laos cambodgien. Bull. Soc. Philom. Paris, 1876, **13**, 97–100. 1876.2

—— Ueber die Gattung Nummopalatus und ihre in Frankreich gefundenen tertiären Arten. Abstract in Neues Jahrb. Mineral., 1876, 589–590. 1876.3

—— Sur les plaques pharyngiennes des Gerridæ. C. R. Assoc. Franç. Avanc. Sci., 5. sess., 1876, 549–552. 1876.4

—— Considérations sur la faune ichthyologique des eaux douces de l'Asie et en particulier de l'Indo-Chine. C. R. Assoc. Franç. Avanc. Sci., 6. sess., 1877, 615–620. map. 1877.1

—— Mémoire sur les *Lepidotus maximus* et *Lepidotus palliatus*. Mém. Soc. Géol. France, 1877, 3. sér. **1**, no. 1, 1–30. 2 pls. 1877.2

—— Note sur les *Sparus desfontainei*, *Coptodus zillei* et *Chromis tristrami*. Bull. Soc. Philom. Paris, 1877, 7. sér. **1**, 160–165. 1877.3

—— Sur les écailles de la ligne latérale chez les sciénoïdes. Bull. Soc. Philom. Paris, 1877, 7. sér. **1**, 154–159. 1877.4

—— Sur les *Lepidotus palliatus* et *Sphærodus gigas*. Bull. Soc. Géol. France 1876–77 (1877), 3. sér. **5**, 626–629. 1877.5

—— Description de poissons nouveaux ou imparfaitement connus de la collection du Muséum d'Histoire Naturelle; famille des scorpénidés, des platycephalidés et des triglidés. Nouv. Arch. Mus. Hist. Nat. Paris, 1878, 2. sér. **1**, 109–158. 2 pls. 1878.1

—— Note sur quelques Cyprinidæ et Cobitidinæ d'espèces inédites, provenant des eaux douces de la Chine. Bull. Soc. Philom. Paris, 1878, 7. sér. **2**, 86–90. 1878.2

—— Note sur quelques poissons d'espèces nouvelles provenant des eaux douces de l'Indo-Chine. Bull. Soc. Philom. Paris, 1878, 7. sér. **2**, 233–242. 1878.3

—— Sur une Himantura [*H. oxyrhynchus*] du Cochinchine. Bull. Soc. Philom. Paris, 1878, 7. sér. **2**, 90–92. 1878.4

—— Sur quelques pleuronectes appartenant aux genres Synaptura et Cynoglossus et provenant de la Cochinchine et du Laos. Bull. Soc. Philom. Paris, 1878, 7. sér. **2**, 92–96. 1878.5

—— Description de quelques poissons d'espèces nouvelles de la collection du Muséum d'Histoire Naturelle. Bull. Soc. Philom. Paris, 1879, 7. sér. **3**, 204–209. *Ibid.*, 1880, **4**, 220–228. *Ibid.*, 1881, **5**, 101–107. *Ibid.*, 1882, **6**, 168–176. *Ibid.*, 1883, **7**, 156–161. 1879.1

—— Mémoire sur la faune ichthyologique de l'île Saint-Paul. Arch. Zool. Expér. Gén., 1879–80, **8**, 1–46. 1879.2

—— Notice sur la faune ichthyologique de l'Ogôoué. Bull. Soc. Philom. Paris, 1879, 7. sér. **3**, 90–103. 1879.3

—— Description de quelques blennoïdes de la collection du Muséum d'Histoire Naturelle. Bull. Soc. Philom. Paris, 1880, 7. sér. **4**, 215–220. 1880.1

Sauvage, *H. E.*

—— Description des gobioïdes nouveaux ou peu connus de la collection du Muséum d'Histoire Naturelle. Bull. Soc. Philom. Paris, 1880, 7. sér. **4**, 40–58. 1880.2

—— Etude sur la faune ichthyologique de l'Ogôoué. Nouv. Arch. Mus. Hist. Nat. Paris, 1880, 2. sér. **3**, 5–56. 3 pls. 1880.3

—— Note sur quelques poissons recueillis par M. Letourneux, en Epire, à Corfou et dans le lac Maréotis. Bull. Soc. Philom. Paris, 1880, **4**, 211–215. 1880.4

—— Notice sur les poissons tertiaires de Céreste (Basses-Alpes) Bull. Soc. Géol. Paris, 1880, 3. sér. **8**, 439–451. pl. 1880.5

—— Notice sur quelques poissons de l'île Campbell et de l'Indo-Chine. Bull. Soc. Philom. Paris, 1880, 7. sér. **4**, 228–233. 1880.6

—— Sur une espèce nouvelle de Channa. Bull. Soc. Philom. Paris, 1880, 7. sér. **4**, 58. 1880.7

—— Synopsis des poissons et des reptiles des terrains jurassiques de Boulogne-sur-Mer. Bull. Soc. Géol. Paris, 1880, 3. sér. **8**, 524–547. 3 pls. 1880.8

—— Note sur les poissons fossiles d'Eurre (Drôme) Ann. Soc. Agric. Lyon, 1881, **3**, 1037–1042. pl. 1881.1

—— Note sur quelques débris de poissons trouvés à Cormoz, département de l'Ain. Mém. Soc. Sci. Nat. Saône-et-Loire, 1881, **3**, 1–5. pl. 1881.2

—— Nouvelles recherches sur les poissons fossiles découverts par M. Alby à Licata, en Sicile. Ann. Sci. Géol., 1881, **11**, no. 3. 3 pls. 1881.3

—— Recherches sur la faune ichthyologique de l'Asie et description d'espèces nouvelles de l'Indo-Chine. Nouv. Arch. Mus. Hist. Nat. Paris, 1881, **4**, 123–194. 4 pls. 1881.4

—— Sur une collection de poissons de Swatow. Bull. Soc. Philom. Paris, 1881, 7. sér. **5**, 104–108. 1881.5

—— Catalogue des poissons recueillis par M. E. Chantre pendant son voyage en Syrie, Haute-Mésopotamie, Kurdistan et Caucase. Bull. Soc Philom. Paris, 1882, 7. sér. **6**, 163–168. 1882.1

—— Etude sur les poissons des faluns de Bretagne. Mém. Soc. Sci. Nat. Saône-et-Loire, 1882, **4**, 37–80. 2 pls. 1882.2

—— Note sur quelques débris de poissons trouvés à Cormoz (département de l'Ain) Description paléontologique. Mém. Soc. Sci. Nat. Saône-et-Loire, 1882, **4**, 99–103. pl. 1882.3

—— Note sur quelques poissons de la Martinique. Le Naturaliste, 1882, **2**, 292–293; 299–300. 1882.4

—— Notice sur les poissons du territoire d'Assinie (Côte d'Or) Bull. Soc. Zool. France, 1882, **7**, 313–325. 1882.5

—— Descriptions de quelques poissons de la collection du Muséum d'Histoire Naturelle. Bull. Soc. Philom. Paris, 1883, 7. sér. **7**, 156–161. 1883.1

—— Note sur le genre Pachycormus. Bull. Soc. Linn. Normandie, 1883, 3. sér. **7**, 144–147. pl. 1883.2

—— Note sur le genre Pleuropholis. Bull. Soc. Géol. Paris, 1883, 3. sér. **9**, 496–503. pl. 1883.3

—— Note sur les poissons du Muschelkalk de Pontpierre (Lorraine) Bull. Soc. Géol. Paris, 1883, 3. sér. **11**, 492–496. pl. 1883.4

—— Sur une collection de poissons recueillie dans le lac Biwako (Japon) par M. F. Steenackers. Bull. Soc. Philom. Paris, 1883, 7. sér. **7**, 144–150. 1883.5

—— Sur une collection de poissons recueillie dans le Mé-Nam (Siam) par M. Harmand. Bull. Soc. Philom. Paris, 1883, 7. sér. **7**, 150–155. 1883.6

—— Contribution à la faune ichthyologique du Tonkin. Bull. Soc. Zool. France, 1884, **9**, 209–215. 2 pls. 1884.1

—— Note sur une collection de poissons recueillie a Pérak, presqu'île de Malacca. Bull. Soc. Zool. France, 1884, **9**, 216–220. fig. 1884.2

—— Note sur des poissons de Franceville, Haut-Ogôoué. Bull. Soc. Zool. France, 1884, **9**, 193–198. pl. & fig. 1884.3

—— Notice sur la faune ichthyologique de l'ouest de l'Asie et plus particulièrement sur les poissons recueillis par M. Chantre pendant son voyage dans cette région. Nouv. Arch. Mus. Hist. Nat., 1884, 2. sér. **7**, 1–41. 3 pls. 1884.4

—— Notice sur le genre Caturus et plus particulièrement sur les espèces du Lias supérieur de l'Yonne. Bull. Soc. Sci. Hist. Nat. Yonne, 1884, **38**, 32–49. 2 pls. 1884.5

—— Notice sur une collection de reptiles et de poissons recueillie a Majumba, Congo. Bull. Soc. Zool. France, 1884, **9**, 199–208. pl. & fig. 1884.6

—— Sur un siluroïde de l'île de la Réunion. Bull. Soc. Philom. Paris, 1884, 7. sér. **8**, 147–148. 1884.7

—— La nourriture de la sardine sur les côtes du Boulonnais. Bull. Soc. Zool. France, 1886, **11**, 621–622. 1886.1

—— Catalogue des poissons des côtes du Boulonnais. Bull. Soc. Zool. France, 1888, **13**, 142–145. — Bull. Sci. Nord., 1888, **1**, 438–443. 1888.1

—— Notes sur le hareng. Bull. Soc. Acclim. Paris, 1888, 4. sér. **35**, 509–518. 1888.2

—— Poissons du terrain houiller de Commentry. Bull. Soc. Indust. Minér., St. Etienne, 1888, 3. sér. **2**, 1–38. figs. 1888.3

This is also included in vol. iii of the work published by H. Fayol and others, entitled: Etudes sur le terrain houiller de Commentry. 3 vols. & atlases. St. Etienne, 1887–93. 8° & fol.

It contains an elaborate discussion of Pleuracanthus and descriptions of species of Palæoniscids.

—— Sur le fœtus de l'aiguillat commun. Bull. Soc. Zool. France, 1888, **13**, 219–220. 1888.4

—— Sur la nourriture de quelques poissons de mer. Bull. Soc. Acclim. Paris, 1888, 4. sér. **5**, 673–677. *Ibid.*, **6**, 961–964. — Rev. Sci. Nat. Appliq., **38**, 32–38. — Ann. Station Aquicole de Boulogne, **1**, 39–51. 1888.5

—— Sur la présence du Raniceps sur les côtes du Boulonnais. Bull. Soc. Zool. France, 1888, **13**, 229–230. 1888.6

—— Synopsis des poissons et des reptiles des terrains jurassiques de Boulogne-sur-Mer. Bull. Soc. Géol. France, 1888, 3. sér. **8**, 524–546. 3 pls. 1888.7

—— Note sur les ganoïdes du terrain houiller de Commentry (Allier) Bull. Soc. Géol. France, 1889, 3. sér. **17**, 184–192. 9 figs. 1889.1

—— Note sur quelques poissons fossiles de Tunisie. Bull. Soc. Géol. France, 1889, 3. sér. **17**, 560–562. fig. 1889.2

—— La pisciculture en Espagne. Bull. Soc. Acclim. Paris, 1889, 4. sér. **36**, 388–392. 1889.3

—— Les chromidés des eaux douces de Madagascar. Bull. Soc. Zool. France, 1891, **16**, 190–197. 1891.1

—— Epoque de la ponte de quelques poissons de mer. Bull. Soc. Acclim. Paris, 1891, **38**, 258–261.—Rev. Sci. Nat. Appliq., 1891, no. 4. 1891.2

—— Note sur le genre Synagris. Bull. Soc. Zool. France, 1891, **16**, 185–187. 1891.3

—— Note sur quelques poissons du Lias supérieur de l'Yonne. Bull. Soc. Sci. Yonne, 1891, **45**, 31–38. 3 pls. 1891.4

—— Poissons fossiles (In his Etudes des gîtes minéraux de la France. Bassin houiller et permien d'Autun et d'Epinac, fasc. 3. 31 p. 5 pls. Paris, 1891. 4°) 1891.5

—— Recherches sur les poissons du Lias supérieur de l'Yonne, zone à ciment de Vassy. Bull. Soc. Hist. Nat. d'Autun, 1891, **4**, 59–81. 4 pls. *Ibid.*, **5**, 386–399. 2 pls. 1891.6

—— Note sur les poissons du terrain permien de l'Allier. Bull. Soc. Géol. France, 1892, 3. sér. **20**, 270–276. pl. 1892.1

—— Examen de l'état de maturité sexuelle de quelques poissons de mer. Ann. Soc. Aquil. Boulogne, 1893, **1**, 86–98. 1893.1

—— La faune ichthyologique du terrain permien français. C. R. Acad. Sci. Paris, 1893, **116**, 656–657. 1893.2

—— Note sur quelques poissons du calcaire bitumineux d'Orbagnoux (Ain) Bull. Soc. Hist. Nat. Autun, 1893, **6**, 427–443. 2 pls. 1893.3

—— Nouvelles recherches sur les poissons du terrain permien d'Autun. Etude des gîtes minéraux de la France, 1893. 9 pls. 1893.4

—— Recherches sur les poissons du Lias supérieur de l'Yonne, zône à ciment de Vassy. Bull. Soc. Sci. Hist. Nat. Yonne, 1893, **47**, 23–33. 2 pls. 1893.5

Sauvage, *H. E.*

—— Les Ischyodus des terrains jurassiques supérieurs du Boulonnais. Bull. Soc. Géol. Paris, 1896, 3. sér. **24**, 456–465. 2 pls. 1896.1

—— Note sur les lépidostéidés du terrain garumnien du Portugal. Bull. Soc. Géol. France, 1897, 3. sér. **25**, 92–96. pl. 1897.1

—— Vertébrés fossiles du Portugal; contributions à l'étude des poissons et des reptiles du Jurassique et du Crétacique. Lisbonne, 1897–98. 46 p. 10 pls. 1897.2

—— Note sur les pachycormidés du Lias supérieur de Vassy (Yonne) Bull. Soc. Hist. Nat. d'Autun, 1898, **11**, pt. 1, 193–200. 1898.1

—— Les reptiles et les poissons des terrains mésozoiques du Portugal. Bull. Soc. Géol. Paris, 1898, 3. sér. **26**, 442–446. 1898.2

—— Note sur les poissons et les reptiles du Jurassique inférieur du département de l'Indre. Bull. Soc. Géol. France, 1900, 3. sér. **28**, 500–504. pl. 1900.1

—— Les poissons et les reptiles du Jurassique supérieur de Fumel (Lot-et-Garonne) Bull. Soc. Géol. France, 1900, 3. sér. **28**, 496–499. 1900.2

—— Les pycnodontes du Jurassique supérieur du Boulonnais. Bull. Soc. Géol. France, 1901, 4. sér. **1**, 542–550. pl. 1901.1

—— La faune ichthyologique des calcaires lithographiques de la province de Lérida, Espagne. Bull. Soc. Géol. France, 1902, 4. sér. **2**, 268–269. 1902.1

—— Les poissons et les reptiles du Jurassique supérieur du Boulonnais au Musée du Havre. Bull. Soc. Géol. Normandie, 1902, **21**, 15–26. 1902.2

—— Recherches sur les vertébrés du Kimméridgien supérieur de Fumel (Lot-et-Garonne) Mém. Soc. Géol. France, 1902, **9**, no. 25. 32 p. 5 pls. 1902.3

—— Noticia sobre los peces de la caliza litográfica de la provincia de Lérida (Cataluña) Mém. Acad. Cienc. Art. Barcelona, 1903, **4**, nom. 35. 32 p. 4 pls. 1903.1

Remarks by C. R. Eastman. Science, 1903, n. s. **19**, 397.

—— Note sur un Hypsocormus du Jurassique supérieur de Boulogne. Ann. Soc. Géol. Nord, 1905, **34**, 8–9. 1905.1

—— Note sur un Spirangium du calcaire lithographique de la province de Lérida (Catalogne) Ann. Soc. Géol. Nord, 1905, **34**, 9–12. 1905.2

—— Nouveau catalogue des poissons des formations secondaires du Boulonnais. Bull. Soc. Acad. Boulogne-sur-Mer, 1905. 1905.3

—— Poissons (In his Note sur l'Infralias de Provenchères-sur-Meuse, Chaumont, p. 10–13. 1907) 1907.1

—— Sur des poissons de la famille des cichlidés trouvés dans le terrain tertiaire de Guelma. C. R. Acad. Sci. Paris, 1907, **145**, 360–361. 1907.2

—— Contribution à l'étude du péritoine des pleuronectes. Mém. Soc. Hist. Nat. Autun, 1908, **21**, 1–7. 1908.1

—— La partie antérieure du pneumogastrique et du grand sympathique chez le poisson lune. Bull. Soc. Hist. Nat. Autun, 1910, no. 23, 1–4. 1910.1

—— Reptiles, amphibiens et poissons. Rev. Critique Paléozool., 1910, 14. année, 82–86. 1910.2

—— Reptiles, amphibiens et poissons. Rev. Critique Paléozool., 1911, 15. année, 23–33; 147–161. 1911.1

—— Reptiles, amphibiens et poissons. Rev. Critique Paléozool., 1912, 16. année, 5–14; 232–243. 1912.1

—— Reptiles, amphibiens et poissons. Rev. Critique Paléozool., 1913, 17. année, 73–88; 130–142. 1913.1

—— Reptiles, amphibiens et poissons. Rev. Critique Paléozool., 1914, 18. année, 1–9; 53–58. 1914.1

—— Reptiles, amphibiens et poissons. Rev. Critique Paléozool., 1916, 20. année, 1–4; 48–54; 133–151. 1916.1

Sauvage, *Henri Emile,* & **Brongniart,** *Charles. See* **Brongniart & Sauvage.**

Sauvage, *Henri Emile,* & **Dabry de Thiersant,** *Pierre.* Notes sur les poissons des eaux douces de la Chine. Ann. Sci. Nat. (*Zool.*), 1874, 6. sér. **1**, art. 5. 1874.1

Sauvage, *Henri Emile,* & **Vaillant,** *Léon. See* **Vaillant & Sauvage.**

Sauvigny, *Edmé Louis Billardon de* [1736–1812] Histoire naturelle des

dorades de la Chine, gravée par M. F. N. Martinet, accompagnée d'observations. Paris, 1780. fol. fig. 1780.1

Savage, *T. E.* Geology of Henry county. Ann. Rept. Iowa Geol. Surv. 1901 (1902), **12**, 239–302. 11 figs. map. 1902.1

Contains faunal lists of Subcarboniferous elasmobranchs.

Savchenko, *A. S.* Elasmobranchii de l'Eocène de Manguichlak [Text in Russian] Zap. Obšč. Jest., Kiev, 1912, **22**, pt. 2, 149–186. pl. 1912.1

—— Ueber die palæogenen Fische von Mangyschlak [Text in Russian] Prot. Obšč. Jest., Kiev 1911 (1912), 47. 1912.2

Savchenko, *Petr Nikolaevich* [1844–1885] Atlas des poissons vénéneux. Descriptions des ravages par eux sur l'organisme humain et des contre-poisons à employer [Text in Russian and French] St. Petersburg, 1887. 53 p. 10 pls. 4° 1887.1

Savi, *Paolo* [1798–1871] Osservazioni sul sistema nervoso dell' organo elettrico della torpedine. Atti Sci. Ital., 1841, 328–329; 334–337. 1841.1

—— Etudes anatomiques sur le système nerveux et sur l'organe électrique de la torpille. Traité des phénomènes électro-physiologiques des animaux par Carlo Matteucci. Paris, 1844. 348 p. 6 pls. 8°. 1844.1

Savigny, *Audouin.* Zoologie de l'Egypte (In Geoffroy-Saint-Hilaire, Isidore. Description de l'Egypte . . . Histoire naturelle. Paris, 1827) 1827.1

Saville, *S. P.* Capture of sturgeon in fresh water. Zoologist, 1860, **18**, 7202. 1860.1

Saville-Kent, *William. See* **Kent,** *William Saville.*

Savoie-Petitpierre, —— Le salut. Genève [n. d.] 12 p. 12°.

—— Der Neuenburgersee . . . in fischereiwirtschaftlicher Hinsicht. Schweiz. Fischerei Zeitg., 1901, **9**, 84–87. 1901.1

—— Le saumon dans le Rhin. Bull. Suisse Pêche, Neuchâtel, 1909, **10**, 20–22. 1909.1

Savornin, *Justin* [1876 —] Sur les poissons fossiles des phosphates algériens. Bull. Soc. Hist. Nat. Afrique du Nord, 1910, **2**, 187–189. 1910.1

—— Les pycnodontes éocènes de l'Algérie. C. R. Assoc. Franç. Avanc. Sci., 1915, 43. sess., 368–377. 5 figs. 1915.1

Four new species of Pycnodus are described.

Savory, (*Sir*) *William Scovell* [1826–1895] On the structure of the red blood corpuscle of oviparous vertebrata. Proc. Roy. Soc. London, 1869, 346–350. 1869.1

Savostickij, *N. G.* Ueber das Verschwinden des Sterljads im Volga-Bassin und seine Ausrottung durch Raubfang [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **3**, 84–96. 1901.1

Savouré, *P.* Note sur l'anatomie de la cavité cloacale de quelques sélaciens. C. R. Congr. Soc. Sav. Paris, 1910, **38**, 298–299. 1910.1

—— Description de la face dorsale de l'encéphale de *Idus jeses* Linné et de *Squalius cephalus* Linné. Bull. Soc. Scient. Méd. Ouest Rennes, 1911, **20**, 267–271. 2 figs. 1911.1

—— Note sur l'anatomie macroscopique de l'encéphale de *Carassius auratus* Linné. Bull. Soc. Scient. Méd. Ouest Rennes, 1911, **20**, 232–235. 2 figs. — Trav. Scient. Univ. Rennes, **10**, pt. 1, 172–175. 2 figs. 1911.2

—— La face supérieure du bulbe râchidien, considérée en ses parties constitutives et caractéristiques, chez les principales espèces de la famille des cyprinidés appartenent aux eaux françaises. Bull. Soc. Scient. Méd. Ouest Rennes, 1912, **21**, 20–29. 16 figs. 1912.1

—— Généralités sur l'anatomie microscopique de l'encéphale des principales espèces de cyprinidés des eaux françaises. C. R. Assoc. Anat., Paris, 1912, **14**, 181–190. 5 figs. 1912.2

—— Note sur les lobes olfactifs de quelques cyprinidés de la faune française. Bull. Soc. Scient. Méd. Ouest Rennes, 1912, **21**, 92–100. 2 figs. 1912.3

Savtschenko, *A. See* **Savchenko,** *A. S.*

Sawadsky, *A. M.* Die Entwickelung des larvalen Haftapparates beim Sterlet (*Acipenser ruthenus*) Anat. Anz., 1911, **40**, 356–378. pl. & 18 figs. 1911.1

Sawadsky, *A. M.*
—— Die Entwickelung des rudimentalen larvalen Haftapparates beim Sterlet (*Acipenser ruthenus*) Trav. Soc. Nat. Univ. Kasan, 1911, **44**, pt. 1. 27 p. 7 figs. 1911.2

Sawyer, *J. G.* That male eel. Testimony from a fisherman who knows all the tributaries of the Delaware. Chicago Field, 1879, **11**, 243. 1879.1

Sawyer, *J. N.* The breeding habits of the eel. Bull. U. S. Fish Comm. 1886 (1887), **6**, 218–219. 1887.1

Saxby, *Henry Linckmeyer* [1836–1873] Food of ling [*Molva vulgaris*] and cod (*Gadus morrhua*) Naturalist, London, 1865, **1**, 236. 1865.1

—— Occurrence of the short sunfish [*Orthagoriscus mola*] in the Shetland seas. Naturalist, London, 1866, **2**, 223–224. 1866.1

Saxby, *T. E.* Sturgeon in the Shetland seas. Ann. Scottish Nat. Hist., 1905, 184. 1905.1

Saxe, —— Remarks regarding the subsidence of the Santa Clara valley and the artesian wells of San José. Proc. Cal. Acad. Sci., 1870, **4**, 130. 1870.1

States that fish occasionally come from the wells.

Say, *Thomas* [1787–1834] Account of an expedition [Major Long's] from Pittsburgh to the Rocky mountains. 3 vols. London, 1823. 8°. 1823.1

Scafati, G. I torpedini e i pesci elettrici. Riv. Maritt. Roma, 1875. 1875.1

Scaffidi, *Vittorio.* Untersuchungen über den Purinstoffwechsel der Selachier. I. Ueber das Harnsäurezerstörungsvermögen der Leber von *Scyllium catulus.* Biochem. Zeitschr., 1909, **18**, 506–513. 1909.1

Scammon, *Charles M.* The Pacific coast cod-fishery. Overland Monthly, 1870, **4**, 436–440. 1870.1

Scammon, *Richard E.* Normal plates of the development of *Squalius acanthias;* with an introduction by Charles S. Minot. Normentafeln zur Entwicklungsgeschichte der Wirbeltiere. Jena, 1911. 140 p. 4 pls. & 26 figs. 8°. 1911.1

—— The development of the elasmobranch liver. I. The early development of the liver. II. The development of the liver ducts and gall-bladder. Amer. Journ. Anat., 1913, **14**, 333–390. 9 pls. & 30 figs. 1913.1

—— The histogenesis of the selachian liver. Amer. Journ. Anat., 1915, **17**, 245–315. 45 figs. 1915.1

Scarpa, *Antonio* [1747–1832] Anatomicæ disquisitiones de auditu et olfactu. Ticini, 1789. fol. 1789.1

Schaaffhausen, *Hermann Joseph* [1816–1893] Ueber die Zahnbildung im Unterkiefer eines vermuthlich noch nicht beschriebenen Fisches aus Südafrika. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1865, 22. Jahrg. (3. ser. 2. Jahrg.), 62–63. 1865.1

Schacherl, *Max.* Zur Rückenmarksanatomie der Plagiostomen (Myliobatis) Arbeit. Neurol. Instit. Wiener Univ., Leipzig, 1902, **9**, 405–416. 1902.1

Schachmagonow, *Theodor.* Ein eigenthümlicher Luftathmungsapparat bei *Betta pugnax.* Zool. Anz., 1900, **23**, 385–387. 2 figs. 1900.1

Schaeck, *H. E.* Histoire du poisson doré (*Carassius auratus* L.) Rev. Sci. Nat. Appliq., 1893. 1893.1

Schaeck, *M. de.* La question de l'anguille. Rev. Sci. Nat. Appliq., 1894, **41**, 61–66. 1894.1

Schäfer, *Karl. Betta splendens* Regan. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 662–663. fig. 1913.1

—— Der rote Rivulus. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 513–514. fig. 1914.1

Schaefer, *M.* Moselfauna; oder, Handbuch der Zoologie, enthaltend die Aufzählung und Beschreibung der im Regierungsbezirke Trier beobachteten Thiere, mit Berücksichtigung der Angrenzung des Mosel Departements und Belgiens. Trier, 1844. 8°. 1844.1

Schäfer, *Paul.* Knurrender Gurami, *Ctenops vittatus,* und Zwerggurami, *Trichogaster lalius* Ham.-Buch. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 305–307. 1915.1

—— Meine Makropoden. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 273–275. fig. 1915.2

—— Vorzeitige Laichabgabe bei Makropoden. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 348. 1915.3

Schäff, *Ernst Ascan Friedrich Wilhelm* [1861 —] Untersuchungen über das Integument der Lophobranchier. Inaug. Dissert. Kiel, 1886. 36 p. pl. 1886.1

Schaeffer, *Jacob Christian* [1718–1790] Epistola ad Regio-Borussicam Societatem litterariam Duisburgensem, de studii ichthyologici faciliori ac tutiori methodo, adiectis nonnullis speciminibus. Ratisbonæ, 1760. 24 p. col. pl. 4°. 1760.1

—— Piscium Bavarico-Ratisbonensium pentas; cum tab. iv æri incisis icones coloribus suis distinctas exhibentibus. Ratisbonæ, 1761. 82 p. 4 col. pls. 4°. 1761.1

Schaeffer, *W.* Ueber die Fortpflanzung des schwarzgebänderten Sonnenfisches (Scheibenbarsch) im Zimmeraquarium. Natur u. Haus, 1904, **12**, 265. 1904.1

Schäme, *Paul.* Etwas von *Pyrrhulina australis* Eigenm. und Kenn. Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 48–51. 2 figs. 1908.1

Schäme, *Paul,* & **Wolterstorff,** *W.* *See* **Wolterstorff & Schäme.**

Schaffer, *Franz X.* Das Miocän von Eggenburg. Die Fauna der ersten Mediterranstufe des Wiener Beckens und die geologischen Verhältnisse der Umgebung des Manhartsberges in Niederösterreich. II. Stratigraphie. Abh. Geol. Reichsanst. Wien, 1913, **22**, 1–124. 10 pls., 21 figs. & map. 1913.1

—— Zur Kenntnis der Miocänbildungen von Eggenburg (Niederösterreich) (III. bis VI) Sitzber. Akad. Wiss. Wien, 1913, **122**, Abth. 1, 41–63. 1913.2

Occurrence of Miocene sharks' teeth is noted.

Schaffer, *Josef.* Ueber den feineren Bau der Thymus und deren Beziehungen zur Blutbildung. Vorläufige Mittheilung. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1893, **102**, pt. 3, 336–341. 1893.1

—— Ueber die Thymusanlage bei *Petromyzon planeri.* Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1894, **103**, pt. 3, 149–156. pl. & 6 figs. 1894.1

—— Ueber das Epithel des Kiemendarms von Ammocœtes nebst Bemerkungen über intraepitheliale Drüsen. Arch. Mikr. Anat., 1895, **45**, 294–338. 2 pls. & 23 figs. 1895.1

—— Zur Kenntniss des histologischen und anatomischen Baues von Ammocœtes. Anat. Anz., 1895, **10**, 697–708. figs. — Zool. Centralbl., 4. Jahrg., no. 4, 137–139. 1895.2

—— Ueber das knorpelige Skelett von *Ammocœtes branchialis* nebst Bemerkungen über das Knorpelgewebe im allgemeinen. Zeitschr. Wiss. Zool., 1896, **61**, 606–659. 3 pls. & 36 figs. 1896.1

—— Ueber die Skeletgewebe der Cyclostomen. Centralbl. Physiol., 1896, **10**, 210. 1896.2

—— Ueber einen neuen Befund von Centrosomen in Ganglien und Knorpelzellen. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1896, **105**, pt. 3, 21–28. pl. & 15 figs. 1896.3

—— Bemerkungen über die Histologie und Histogenese des Knorpels der Cyclostomen. Arch. Mikr. Anat., 1897, **50**, 170–188. Abstract in Journ. Roy. Micr. Soc., pt. 5, 362. 1897.1

—— Der feinere Bau und die Entwickelung des Schwanzflossenknorpels von Petromyzon und Ammocœtes. Anat. Anz., 1901, **19**, 20–29. pl. & fig. 1901.1

—— Ueber den feineren Bau und die Entwicklung des Knorpelgewebes und über verwandte Formen der Stützsubstanz. Zeitschr. Wiss. Zool., 1901–11. 1901.2

i. Ueber die Entwicklung und den Bau des Schwanzknorpels der Petromyzontidæ. Zeitschr. Wiss. Zool., 1901, **70**, 109–170. 2 pls.
ii. Das Knorpelgewebe und das knorpelähnliche, blasige Stützgewebe von *Myxine glutinosa,* nebst Bemerkungen zur Morphologie des Schädelskelettes dieses Tieres und einem Nachtrage über das harte Knorpelgewebe der Petromyzonten. *Ibid.,* 1905, **80**, 155–258. 2 pls.
iii. Die Chorda dorsalis und das chordoide blasige Stützgewebe. *Ibid.,* 1911, **97**, 1–90. 2 pls.

—— Berichtigung, die Schilddrüse von Myxine betreffend. Anat. Anz., 1906, **28**, 65–73. 6 figs. 1906.1

—— Ueber das Verhältnis des Chordagewebes zum Knorpelgewebe. Anat. Anz., 1910, **37**, 231–239. 1910.1

Schaffner, *Daniel C.* Notes on the occurrence of Ammocœtes, the larval form of *Lampetra wilderi,* near Ann Arbor. 3. Rept. Michigan Acad. Sci., 1902, 71–72. 1902.1

Schaffner, *G.* Zur Streitfrage des Bodensee-Zanders. Schweiz. Fischerei Zeitg., 1893, **1**, 158. Also separate; Pfäffikon-Zürich, 1893. 1 p. 8°. 1893.1

Schagerström, *Nils Olaf* [1785–1851] *Brama raji,* en evanlig fisk, funnen vid kyster af Skåne. Handl. Svensk. Vet. Akad., 1827, 207–211. pl. 1827.1

—— *Mugil cephalus* och *Perca labrax,* tvenne ovanliga fiskar, fångade vid kuste af Skåne. Handl. Svensk. Vet. Akad., 1829, 90–102. 1829.1

—— Några anteckningar öfver de svenska arterna af slägtet Callionymus. Handl. Svensk. Vet. Akad., 1830, 126–137. 2 pls. — Isis (Oken), 1835, 385–392. 1830.1

—— Några anatomiska observationer öfver svart-torsken [*Gadus carbonarius*] Handl. Svensk. Vet. Akad., 1831, 149–154. — Isis (Oken), **7**, 601. 1831.1

—— *Pagellus centrodontus,* en ovanlig fisk, etc. Handl. Svensk. Vet. Akad., 1833, 138–145. pl. — Isis (Oken), 1835, 392–396. 1833.1

—— Förteckning på fiskar träffade i Skåne, i synnerhet vid och omkring Landskrona. Physiog. Sällsk. Tidskrift, Lund, 1838, **1**, 286–289; 291–314. 1838.1

—— *Liparis gobius,* en sällsynt fisk, funnen i Sundet vid Landskrona. Handl. Svensk. Vet. Akad., 1838, 248–252. 1838.2

—— Verzeichniss in Schönen, besonders bei und um Landskrona angetroffner Fische. Isis (Oken), 1842, 861–863; 905–915. 1842.1

Schalin, *Zachris. Pelecanus onocrotalus, Acipenser sturio* och *Haliaëtus albicilla.* Meddel. Soc. Fauna & Flora Fenn., 1883, **9**, 146. 1883.1

Schalk, *Alban.* Die Entwicklung des Cranial- und Visceralskeletts von *Petromyzon fluviatilis.* Arch. Mikr. Anat., 1913, **83**, pt. 1, 43–67. pl. & 34 figs. 1913.1

Schaller, *A.* Jahresbericht über die See- und Küstenfischerei Preussens, u. s. w., für die Zeit vom 1. April 1909 bis Ende März 1910. Mitt. Deutsch. Seefischerei Ver., 1911, **27**, 142–178. 1911.1

Schalow, *Herman.* Anton Reichenow. Ein Verzeichniss seiner bisherigen Arbeiten, 1869–1896. 29 p. 8°. Abstract in Auk, 1896, n. s. **14**, no. 2, 248. 1869.1

Schaper, *Alfred.* Zur feineren Anatomie des Kleinhirns der Teleostier. Anat. Anz., 1893, **8**, 705–720. figs. 1893.1

—— Die morphologische und histologische Entwickelung des Kleinhirns der Teleostier. Morphol. Jahrb., 1894, **21**, 625–708. 4 pls. & 20 figs. Abstract in Anat. Anz., **9**, 489–501. 20 figs. 1894.1

—— The finer structure of the selachian cerebellum (*Mustelus vulgaris*) as shown by chrome-silver preparations. Journ. Comp. Neurol., 1898, **8**, no. 1, 1–20. 4 pls. & fig. Also separate; Boston, 1897. 1898.1

—— Die nervösen Elemente der Selachier-Retina in Methylenblaupräparaten. Nebst einigen Bemerkungen über das "Pigmentepithel" und die konzentrischen Stützzellen (In Festschrift zum siebenzigsten Geburtstage von Carl von Kupffer, p. 1–10. 3 pls. Jena, 1899) 1899.1

—— Zur Histologie des Kleinhirns der Petromyzonten. Anat. Anz., 1899, **16**, 439–446. 4 figs. 1899.2

—— Zur Morphologie des Kleinhirns. Anat. Anz. (Verh. Anat. Ges.), 1899, **16**, 102–115. 10 figs. 1899.3

Schapringer, *Alois.* Ueber die Bildung des Medullarrohres bei den Knochenfischen. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1871, **64**, 2. Abth., 653–656. Also separate; Wien, 1876. 4 p. 8°. 1871.1

Schardt, *Hans* [1858 —] Mélanges géologiques sur le Jura neuchâtelois et les régions limitrophes. II. Bull. Soc. Sci. Nat. Neuchâtel, 1901, **29**, 107–166. 7 pls. & 13 figs. 1901.1

Schardt, *Hans,* & **Dubois,** *Aug.* Description géologique de la région des gorges de l'Areuse (Jura neuchâtelois) Bull. Soc. Sci. Nat. Neuchâtel, 1902, **30**, 195–352. 20 figs. & 5 maps. 1902.1

Scharff, *Robert Francis* [1858 —] Some remarks on the egg-membranes of osseous fishes. Rept. Brit. Assoc. Adv. Sci., 56. meet., 1886, 698. 1886.1

—— On the intra-ovarian egg of some osseous fishes. Quart. Journ. Micr. Sci., 1888, n. s. **28**, 53–74. pl. Abstract in Proc. Roy. Soc. London, **40**, 447–449. 1888.1

—— Review of Dohrn's theories on the origin of the vertebrates. Proc. Roy. Soc. Dublin, 1888, 2. ser. **6**, 14–38. 1888.2

—— Catalogue of the collection of Irish fishes in the Science and Arts Museum [Dublin] Dublin, 1889. 34 p. 1889.1

—— Notes on a sucking-fish (*Liparis vulgaris* Flem.) new to Ireland. Proc. Roy. Soc. Dublin, 1890, 2. ser. **6**, 448–449. 1890.1

—— Report on the fishes obtained off the southwest coast of Ireland during the cruises of the "Lord Bandon" and the "Flying Falcon," 1886 and 1888. Proc. Roy. Irish Acad., 1891, 3. ser. **1**, 456–459. fig. 1891.1

—— The shade fish or maigre (*Sciœna aquila*) on the Irish coast. Irish Naturalist, 1896, **5**, no. 10, 275. 1896.1

—— A supposed landlocked salmon. Irish Naturalist, 1896, **5**, 16–17. 1896.2

—— The history of the European fauna. London, 1899. 364 p. illust. 8°. 1899.1

Contains incidental references to fishes.

—— A remarkable fish (*Luvarus imperialis*) obtained on the south coast of Ireland. Irish Naturalist, 1901, **10**, 190–191. fig. 1901.1

—— The long-finned tunny (*Thynnus germo* Lacép.) an addition to the Irish fauna. Irish Naturalist, 1902, **11**, 105. fig. 1902.1

—— Exploration of the caves of Kesh, county Sligo. Trans. Roy. Irish Acad., 1903, **32**, 189–207. 2 pls. 1903.1

—— The pilot-fish in Irish waters. Irish Naturalist, 1903, **12**, 206. 1903.2

—— Some remarks on the Atlantic problem. Proc. Irish Acad., 1903, **24** *B*, 268–302. 2 figs. 1903.3

—— Fox-shark in Sheep haven, county Donegal. Irish Naturalist, 1905, **14**, 263. 1905.1

—— Is the minnow a native of Ireland? Irish Naturalist, 1905, **14**, 225–228. 1905.2

—— Large fox-shark on the coast of Donegal. Irish Naturalist, 1906, **15**, 156. 1906.1

—— The oblong sunfish off the coast of Ireland. Irish Naturalist, 1906, **15**, 275. 1906.2

—— European animals, their geological history and geographic distribution. London & New York, 1907. 258 p. illust. 8°. 1907.1

Chap. ii. Ireland. Irish freshwater animals and relict lakes, p. 26–47.

—— Fishes (In Contributions to the natural history of Lambay, county Dublin. Irish Naturalist, 1907, **16**, 31–32. pl.) 1907.2

—— Advances in Irish marine zoology. Irish Naturalist, 1910, **19**, 74–78. 1910.1

—— The file-fish in Irish waters. Irish Naturalist, 1910, **19**, 29. 1910.2

—— The long-finned bream (*Brama longipinnis* Lowe) An addition to the Britannic fauna. Irish Naturalist, 1915, **24**, 97–98. pl. 1915.1

—— Notes on Irish sharks. Irish Naturalist, 1915, **24**, 99–100. 1915.2

Scharff, *Robert Francis,* **Ussher,** *R. J.,* **Cole,** *George Arthur James,* **Newton,** *E. T.,* **Dixon,** *A. F.,* & **Westropp,** *T. J.* The exploration of the caves of county Clare. Trans. Roy. Irish Acad., 1906, **33**, 1–76. 5 pls. 1906.1

Contains mention of fish-remains.

Schatz, *G.* Poissons de la Horne aux environs de Bitche, observés de 1855 à 1888. Bull. Soc. Hist. Nat., Metz, 1908, **25**, 79–81. 1908.1

Schauinsland, *Hugo Hermann* [1857 —] Beiträge zur Entwicklungsgeschichte und Anatomie der Wirbeltiere. I–III. Zoologica, 1903, Heft 39. 1903.1

Schauroth, *Karl von.* Ueber das Vorkommen des *Semionotus bergeri* im Keuper bei Coburg. Zeitschr. Deutsch. Geol. Ges., 1851, **3**, 405–410. pl. 1851.1

Scheel, *C.* Beiträge zur Entwickelungsgeschichte der Teleostierwirbelsäule. Morphol. Jahrb., 1893, **20**, 1–47. 3 pls. 1893.1

Scheftelowitz, *Isador Isaac.* Das Fisch-Symbol im Judentum und Christentum. Arch. Religionsw. Leipzig, 1911, **14**, 1–53; 321–392. 1911.1

Schelaputin, *Gr.* Beiträge zur Kenntnis des Skelets der Welse (Das Cranium von Clarias) Bull. Soc. Nat. Moscou 1905 (1906), 85–126. 17 figs. 1906.1

Scheljuzhko, *L.* *Callichthys callichthys* (Linné) und seine Zucht. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 51–53. 2 figs. 1911.1

—— Ueber eine gelungene Kreuzung zwischen *Pœcilia mexicana* Männchen und *Molliensia latipinna* Weibchen [Mit Zusatz von W. Wolterstorff] Blätt. Aquar.-Terrar. Kunde, 1912, **23**, 486. 1912.1

Schellwien, *Ernst Theodor Thomas* [1866–1906] Ueber Semionotus Ag. Schrift. Oekon.-Physikal. Ges. Königsberg 1901 (1902), **42**, 1–33. 3 pls. & 6 figs. 1902.1

—— Geologische Bilder von der samländischen Küste. Schrift. Phys.-Oekon. Ges. Königsberg 1905 (1906), **46**, 1–43. 54 figs. 1906.1

Scheltema, *Salomon Pieter.* De Amsterdamsche visscherij, in de boeken en registers van het Archief, medegedeeld (In Catalogus der inzendingen uit Nederland naar de internationale tentoonstelling te Bergen, p. 44–47. Rotterdam, 1865) 1865.1

Schenk, *Hellmut.* Anpassung an die Farbe der Umgebung bei *Lebias calaritana;* vorläufige Mitteilung. Arch. Ges. Physiol., 1914, **158**, 105–106. 1914.1

Schenk, *Samuel Leopold* [1840–1902] Zur Entwickelungsgeschichte des Auges der Fische. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1867, **55**, 2. Abth., 480–492. 1867.1

—— Zur Lehre von der Organanlagen im motorischen Keimblatte. Wien, 1868. 3 pls. 8°. 1868.1

—— Der Dotterstrang der Plagiostomen. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1874, **69**, 1. Abth., 301–308. Also separate; Wien, 1874. 8 p. 8°. 1874.1

—— Die Eier von *Raja quadrimaculata* Bonap. innerhalb der Eileiter. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1874, **68**, 1. Abth., 363–374. Abstract in Lotos, 1874, 24. Jahrg., 139. Also separate; Wien, 1874. 12 p. 8°. 1874.2

—— Lehrbuch der vergleichenden Embryologie der Wirbelthiere. Wien, 1874. fig. 8°. 1874.3

—— Die Kiemenfäden der Knorpelfische während der Entwickelung. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1875, **71**, 3. Abth., 227–238. 1875.1

—— Die Entwickelungsgeschichte der Ganglien und des Lobus electricus. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1877, **74**, 3. Abth., 13–38. — Anz. Akad. Wiss. Wien, **13**, 112. 1877.1

Schenkling-Prévôt, —— Farbenwechselnde Fische des Berliner Aquariums. Zool. Garten, 1894, **35**, 292–297. 1894.1

—— Leuchtende Fische. Naturfreund, Witten, 1902, **1**, 35–36; 46–47; 49–50. 1902.1

Scherer, *Joseph.* Untersuchung der Galle eines Störes. Verh. Physik. Med. Ges. Würzburg, 1857, **7**, 269–270. 1857.1

—— Zoologische Reiseskizzen aus Oran. Natur u. Haus, 1905, 13. Jahrg., 177–180; 196–200; 212–216. 24 figs. 1905.1

Schermer, *Ernst.* Bastarde von Süsswasserfischen deutscher Gewässer. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 409. 1913.1

—— Beobachtungen und Betrachtungen. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 371–372. 1914.1

—— Schaden Cyclops den Fischen? Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 406–407. 1914.2

—— Bepflanzung unserer Aquarien nach biologischen und geographischen Gesichtspunkten und die dazu gehörenden Fische. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 173–175. 1915.1

—— Die kleine Meergrundel (*Gobius minutus* L.) Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 354–356. 1915.2

—— Die Plötze oder das Rotauge *Leuciscus rutilus* L. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 215–216. fig. 1915.3

Scheuring, *Ludwig.* Beobachtungen über den Parasitismus pelagischer Jungfische. Biol. Centralbl., 1915, **35**, 181–190. 1915.1

Aufhalfen unter dem Schirm der Qualle. Verzehren von Ovarialfetzen. Keine Symbiose.

Schiche, *E.* Geburt und Aufzucht der Jungfische bei *Xiphophorus helleri.* Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 258–260. 1915.1

Schick, *C.* Weitere Beiträge zur Zucht und Pflege des *Belonesox belizanus* Kner. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 357–358. fig. 1912.1

Schieber, *Chr.* Ueber den Weser-Lachs. Circul. Deutsch. Fischerei Ver., 1872, no. 8, 192–196. 1872.1

Schiebold, *A.* Etwas von der Pflege des *Ctenops vittatus* oder knurrenden Guramis. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 741–742. fig. 1912.1

Schiefferdecker, *P.* Ueber das Fischauge. Anat. Anz., 1887, 2. Jahrg., 381–382. 1887.1

—— Eine neue Methode der Muskel-Untersuchung. Sitzber. Niederrhein. Ges. Bonn, 1902. 1902.1

—— Untersuchung roter und weisser Karauschenmuskeln (In his Muskeln und Muskelkerne, p. 159–197. Leipzig, 1909. figs.) 1909.1

—— Untersuchungen über die Rumpfmuskulatur von *Petromyzon fluviatilis* in Bezug auf ihren Bau und ihre Kernverhältnisse, über die Muskelfaser als solche und über das Sarkolemm. Arch. Mikr. Anat., 1911, **78**, 1. Abth., 422–495. 2 pls. & 3 figs. 1911.1

Schiemenz, *Paulus.* Zweisömmerige Karpfen mit vollkommen geschlossenem Munde aus der Fischzuchtanstalt in Grossbeeren. Sitzber. Ges. Naturf. Freunde Berlin, 1897, 155–156. 1897.1

—— Die Zoologie im Dienste der Fischerei. Tagebl. Intern. Zool. Congr., Berlin, 1901, **5**, no. 8, 9. 1901.1

—— Bericht über die Fischerei-Expedition des Deutschen Seefischerei-Vereins in der Ostsee, 1901. Abh. Deutsch. Seefischerei Ver., 1902, **7**, 163–284. 1902.1

—— Die Stärkefabrik in Deutschen und das Fischsterben in der Obra im Winter 1900–01. Artikel 2. Zeitschr. Fischerei, Berlin, 1902, **10**, 192–199. 1902.2

—— Die Zoologie im Dienste der Fischerei. Verh. Intern. Zool. Congr., Jena, 1902, **5**, 579–584. 1902.3

—— Landwirtschaftliche Fischzucht. Arbeit. Deutsch. Landw. Ges., Berlin, 1904, **98**, 288–307. 1904.1

—— Ueber die Schwarmbildung bei unseren Süsswasserfischen. Deutsch. Fischerei Zeitg., 1904, **27**, 317–318; 325–326; 341–342. 1904.2

—— Die Bedeutung der Pflanzen für die Erzeugung von Fischnahrung. Deutsch. Fischerei Zeitg., 1905, **28**, 482–483; 495–496; 509–510. 1905.1

—— Die Nahrung unserer gewöhnlichen Wildfische. Allgem. Fischerei Zeitg., 1905, **30**, 323–326. 1905.2

—— Ueber den Wert des Auftriebs (Planktons) als Fischnahrung und zur Bonitierung von Karpfenteichen. Deutsch. Fischerei Zeitg., 1905, **28**, 46–49; 61; 75. 1905.3

—— Ueber die Nahrung unserer gewöhnlichen Wildfische. Deutsch. Fischerei Zeitg., 1905, **28**, 295; 307–309; 319–320; 335–336. 1905.4

—— Die Verteilung der Fischnahrung in unseren Gewässern. Deutsch. Fischerei Zeitg., 1905, **28**, 538; 551–552; 563–564; 577–578. 1905.5

—— Wie frisst der Fisch? Deutsch. Fischerei Zeitg., 1905, **28**, 605–606; 620–621; 634; 645–646; 659. 1905.6

—— Zur Stichlingsplage. Deutsch. Fischerei Zeitg., 1905, **28**, 195–197. 1905.7

—— Bericht über die Informationsreise nach Comacchio und Venedig zum Studium des Aalfanges (im September 1906) (In Henking, Der Aalfang in den Lagune von Comacchio und Venedig; Ergebnisse einer Studienreise. No. 3. Mitt. Deutsch. Seefischerei Ver., 1908, **24**, 404–411. fig.) 1908.1

—— Das Königliche Institut für Binnenfischerei in Friedrichshagen am Müggelsee. Zeitschr. Fischerei, 1911. 16 p. 12 pls. 8°. 1911.1

—— Die Krankheitserscheinungen bei den Fischen im allgemeinen. Berlin. Klin. Wochenschr. 1916, 52. Jahrg., 1142–1144. 1916.1

Review in Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 120–122.

Schiemenz, *Paulus,* & **Cronheim,** *Walter. See* **Cronheim & Schiemenz.**

Schiemenz, *Paulus,* & **Marsson,** *M. See* **Marsson & Schiemenz.**

Schieppati, *E.* Alcune osservazioni sul comportamento del Bacillus anthracis nei pesci. Atti Soc. Ital. Sci. Nat. Milano, 1912, **51**, 73–85. 1912.1

Schikora, *F.* Entwickelungs-Bedingungen einiger abwässerreinigender Pilze, insbesonders *Sphærotilus fluitans* nov. spec. und *Leptomitus lacteus* Ag. Zeitschr. Fisch. Hilfsw., Berlin, 1899, **7**, 1–28. 4 pls. 1899.1

Schikora, *F.*

—— Fischzucht in Schlesien (In Buntebilder aus dem Schlesierlande, vol. ii, p. 184–190. Breslau, 1903) 1903.1

Schilling, *Godefried Wilhelm.* Fenomeno osservato nella torpedine. Bibl. Britannique, 1808, **39**, 263–272. — Giorn. Soc. Incor., Milano, **5**, 46–53. 1808.1

Schilling, *Karl.* Ueber das Gehirn von *Petromyzon fluviatilis.* Abh. Senckenberg. Naturf. Ges., 1907, **30**, 423–446. pl. & 2 figs. 1907.1

Schilling, *Peter Samuel* [1773–1852] Ausführliche Naturgeschichte der Fische, etc. (In his Ausf. Nat. Thier-Pflanzen-Miner., Bd. iii. Breslau, 1839) 1839.1

Schillinger, *Alfred.* Die Fischerei auf der Weltausstellung in Chicago. Allgem. Fischerei Zeitg., 1894, 19. Jahrg., 36. 1894.1

—— Beobachtungen über die Renken [*Coregonus wartmanni* Bl.] im Bodensee. Allgem. Fischerei Zeitg., 1896, 21. Jahrg., no. 2, 22–24. 1896.1

—— Der Tiefseesaibling. Allgem. Fischerei Zeitg., 1901, **26**, 149–151. 1901.1

Schilthuis, *Louise.* On a collection of fishes from the Congo; with description of some new species. Tijdschr. Nederl. Dierk. Ver., 1890–92, 2. ser. **3**, 83–92. pl. 1890.1

Schimper, *Wilhelm Philipp* [1808–1880] Tertiäre Fischabdrücke auf Schieferplatten von Mühlhausen. Lotos, 1860, 10. Jahrg., 16. 1860.1

—— Sur poissons fossiles de Ferrette. Mém. Soc. Sci. Nat. Strasburg, 1863, **5**, pt. 2, 13–14. 1863.1

Schindler, *S.* Beiträge zur Kenntniss des Adenins, Guanins und ihrer Derivate [Sperma des Karpfens] Zeitschr. Physiol. Chemie, 1889, **13**, 436–437. 1889.1

Schinke, *Karl.* Praktische Fischzucht und Teichwirtschaft. Stettin, 1902. 100 p. 1902.1

—— Ueber Fischnahrung und Fischgewässer. Natur u. Kultur, 1904, **1**, 762–765. 1904.1

Schinz, *Heinrich Rudolf* [1777–1861] Ertrag und Beschaffenheit des Fischfangs (Ursernthal, lago di Lucendro) Beitr. Näheren Kenntniss des Schweizerlandes, 1783, 1. Heft, 41. Also separate; Zürich, 1783. 1 p. 8°. 1783.1

—— Fischerei der Welschen. Beitr. Näheren Kenntniss des Schweizerlandes, 1787, 5. Heft, 742–749. Also separate; Zürich, 1787. 7 p. 8°. 1787.1

—— Naturgeschichte und Abbildungen der Fische. 16 vols. Leipzig, 1836–38. fol. 1836.1

Another edition. Zürich, 1845.

—— Fauna helvetica, oder Verzeichniss der in der Schweiz vorkommenden Wirbelthiere. Neue Denkschr. Allgem. Schweiz. Ges. Naturw., Neuchatel, 1837, **1**. 1837.1

—— Europaïsche Fauna; oder Verzeichniss der Wirbelthiere Europa's. 2 vols. Stuttgart, 1840. 8°. 1840.1

Vol. ii. Fische.

Schiødte, *Jørgen Matthias Christian* [1815–1884] Om oiestillings udvikling hos flynderfiskene. Naturhist. Tidsskr., 1868–69, 3. ser. **5**, 269–275. — Ann. Mag. Nat. Hist., 1868, 4. ser. **1**, 378–383. 1868.1

—— Efterskrift om øiestillingens udvikling hos flynderfiskene. Naturhist. Tidsskr., 1877–78, **11**, 603–609. 1877.1

—— Zoologia Danica. Afbildninger af danske dyr, med populær text. Udgivne med offentlig understøttelse af J. C. Schiødte [and afterwards H. J. Hansen] Kjøbenhavn, 1878. xx, 360 p. illust. 4°. 1878.1

Fishes, by G. Winther.

Schiødte, *Jørgen Matthias Christian,* **Reinhardt,** *J. T.,* **Mörch,** *O. A. L.,* **Lütken,** *C. F.,* **Langa,** *J.,* & **Rink,** *H.* *See* **Reinhardt, Schiødte** & others.

Schirmer, —— Die Orfe, ein Nutzfisch. Deutsch. Landw. Presse, Berlin, 1901, **28**, 185. 1901.1

Schively, *M. A.* Ueber die Abhängigkeit der Herztätigkeit einiger Seetiere von Concentration des Seewassers. Arch. Gesamt. Physiol., 1893, **55**, 307–318. 1893.1

Schlagintweit, *Hermann Alfred Rudolph von* [1826–1882] Ueber das Ansteigen der Fische des Púga-Baches in Verbindung mit dem Borax-Lager von Ladák [Tibet] Bayer. Fischerei Zeitg., 1879, 4. Jahrg., 15–16; 22–23. 1879.1

Schleep, *B. C.* Farben-Varietät von *Pleuronectes platessa.* Isis (Oken), 1829, **22**, 1053. 1829.1

—— Sonderbare Abweichung bei *Pleuronectes maximus* Linn. Isis (Oken), 1829, **22**, 1049–1053. — Bull. Sci. Nat. (Férussac), **22**, 137. 1829.2

Schlegel, *C.* Note sur la pêche à Roscoff. Bull. Soc. Zool. France, 1910, **35**, 125–136. 1910.1

Schlegel, *Gustav* [1840–1903] Pisciscultuur der Chinezen vertaald uit het wonderbare boek "Om rijk te worden," deel II, sectie 3, hoofdstuk 2. Tijdsskr. Nijverheid. Nederl. Indie, 1863, **9** (n. s. **4**), 333–335. 1863.1

Schlegel, *Hermann* [1804–1884] Uebersicht der in Japan vorkommenden Fische. Ber. Vers. Deutsch. Naturf., 1842, 208. 1842.1

—— Beschrijving eener nieuwe soort van visschen [*Peristedion laticeps*] Bijdr. Dierk., 1848–54, **1**, 43–44. pl. Also separate; Amsterdam, 1852. pl. 4°. 1848.1

—— Beschrijving eener nieuwe soort van vischen [*Polynemus multifilis*] Bijdr. Dierk., 1848–54, **1**, 9–12. pl. Also separate; Amsterdam, 1852. pl. 4°. 1848.2

—— Pisces (In Siebold's Fauna Japonica. Leyden, 1850) 1850.1

—— Over twee nieuwe soorten van visschen [*Amphacanthus vulpinus* and *A. puellus*] Bijdr. Dierk., 1852, **1**, 38–40. pl. 1852.1

—— Handleiding tot de beoefening der dierkunde. 2 vols. Breda, 1857. 8°. 1857.1

Fishes, vol. ii, p. 65–206.

—— Natuurlijke historie van Nederland. De dieren van Nederland: H. Schlegel, gewervelde dieren. Visschen. Haarlem, 1862. 31 pls. 8°. 1862.1

—— Visschen von Nederland. Haarlem, 1869. 21 pls. 1869.1

—— De visschen. Amsterdam, 1870. 1870.1

Schlegel, *Hermann,* & **Müller,** *Salomon.* Beschrijving van vier Oost-Indische zeevischen behoorende tot het geslacht Amphacanthus. Verh. Natuur. Gesch. Leiden, 1839–44, **2**, 9–16. 2 pls. 1839.1

—— Over de visarenden (Pandion) van den Indischen Archipel. Verh. Natuur. Gesch. Leiden, 1839–44, **2**, 41–48. 1839.2

—— Overzigt den uit de Sunda en Moluksche zeeen bekende visschen, van de geslachten Amphiprion, Premnas, Pomacentrus, Glyphisodon, Dascyllus en Heliases. Verh. Natuur. Gesch. Leiden, 1839–44, **2**, 17–26. 3 pls. 1839.3

Schleiden, *Matthias Jakob* [1804–1881] Das Meer, mit Stahlstichen. Berlin, 1866. 8°. 1866.1

Fische, der Häring, die Salmonen, u. s. w., p. 490–562.

Schleiff, *V.* Der Fischmarkt in Konstantinopel. Natur u. Haus, 1902, **11**, 66–70. 1902.1

Schleip, *Waldemar.* Die Entwickelung der Kopfknochen bei dem Lachs und der Forelle. Inaug. Dissert. Freiburg. i. B., 1903. 100 p. Anat. Hefte, 1904, **23**, Abth. 1, 331–427. 21 figs. 1903.1

Schlemm, *Friedrich,* & **Alton,** *Eduard d'.* *See* **Alton** & **Schlemm.**

Schlesinger, *Friedrich Wilhelm.* Beobachtungen beim Brutgeschäft des gemeinen Sticklings (*Gasterosteus aculeatus* L.) Mitt. Bad. Zool. Ver., 1900, no. 8, 139–143. 1900.1

—— Der gemeine Aal und sein Vorkommen in den Gewässern des Grossherzogtums Baden. Mitt. Bad. Zool. Ver., 1900, no. 3, 61–64; no. 4, 75–80; no. 5, 94–104; no. 6, 111–115. 1900.2

—— Beobachtungen beim Brutgeschäft des gemeinen Stichlings. Nerthus, 1902, 4. Jahrg., 204–206. 1902.1

Schlesinger, *Günther.* Der sagittiforme Anpassungstypus nektonischer Fische. Verh. Zool.-Bot. Ges. Wien, 1909, **59**, 140–156. 7 figs. 1909.1

—— Zur Phylogenie und Ethologie der Scombresociden. Verh. Zool.-Bot. Ges. Wien, 1909, **59**, 302–339. pl. & 6 figs. 1909.2

—— Die Gymnonoten. Zool. Jahrb. (*Abth. Syst.*), 1910, **29**, 613–640. 3 pls. & 4 figs. 1910.1

—— Lebensweise, Anpassungen und Stammesgeschichte der Mormyriden. Verh. Zool.-Bot. Ges. Wien, 1910, **60**, 155–158. 1910.2

—— Die Locomotion der Notopteriden. Zool. Jahrb. (*Abth. Syst.*), 1910, **29**, 681–688. pl. 1910.3

—— Zur Ethologie der Mormyriden. Ann. K. K. Hofmus. Wien, 1910, **23**, 282–311. 21 figs. 1910.4

Schlesinger, *G.*

—— Die Locomotion der tänioformen Fische. Zool. Jahrb. (*Abth. Syst.*), 1911, **31**, 469–490. pl. 1911.1

—— Schwimmen und Schwimmtypen flinker Meeresfischen. Kosmos, 1911, 8. Jahrg., 284–287. 7 figs. 1911.2

—— Ueber undulatorische Bewegung bei Fischen. Verh. Zool.-Bot. Ges. Wien, 1911, **61**, 301–322. 6 figs. 1911.3

—— Die Aviatik der Flugfische. Kosmos, 1912, 9. Jahrg., 300–303. 5 figs. 1912.1

—— Die Lokomotion von *Xenomystus nigri* und ihre Rückwirkungen auf das Skelett. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 742–744. 2 figs. 1912.2

Schlichter, *Heinrich.* Ueber den feineren Bau des schwach-elektrischen Organs von *Mormyrus oxyrhynchus* Geoffr. Zeitschr. Wiss. Zool., 1906, **84**, 479–525. 3 pls. 1906.1

Schlieper, *G.* Aus der Kinderstube des Dampfzuchters. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 606–610. pl. 1914.1

Schlömp, *Victor.* Die Zucht des Makropoden im Zimmeraquarium. Nerthus, 1900, 2. Jahrg., 354–355. 1900.1

—— Fischzucht im Zimmer. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 594–602. 2 pls. & 12 figs. 1913.1

—— Ein Blick hinter die Kulissen des Berliner Aquariums. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 133–134. 1914.1

Schlœsing, *Th.*, & **Richard,** *Jules.* Recherche de l'argon dans les gaz de la vessie natatoire des poissons et des physalies. C. R. Acad. Sci. Paris, 1896, **122**, 615–617. 1896.1

Schloesser, *G.* De petromyzontium et anguillarum anatome. Inaug. Dissert. Dorpati, 1848. pl. 8°. 1848.1

Schlossberger, *Julien.* Analyse der Galle des Wels. Annal. Chem. Pharm., 1858, **108**, 66–67. 1858.1

Schlosser, *John Albert* [— 1769] An account of a fish from Batavia, called jaculator [Chætodon] in a letter to Mr. Peter Collinson, F. R. S. Phil. Trans. Roy. Soc. London, 1764, **54**, 89–91. pl. 1764.1

—— Epistola ad Ferd. Dejean, in qua accurata descriptio *Balistes ringentis*, ex India orientali; Lagocephali veri, ex Promontorio Bonæ Spei, et Hystrici, ex India orientali [Belg. et Lat.] Amstelodami, 1769. pl. 4°. 1769.1

—— Some further intelligence relating to the jaculator fish, mentioned in the Philosophical Transactions for 1764, Art. XIV. from Mr. Hommel, at Batavia, together with the description of another species, by Dr. Pallas, F. R. S. in a letter to Mr. Peter Collinson, F. R. S. Phil. Trans. Roy. Soc. London, 1777, **56**, 186–188. 1777.1

Schlosser, *John Albert,* & **Boddaert,** *P. See* **Boddaert** & **Schlosser.**

Schlosser, *John Albert,* & **Pallas,** (*Dr.*) *P. Simon. See* **Pallas** & **Schlosser.**

Schlosser, *Max.* Die Fauna des Kelheimer Diceras-Kalkes. Palæontogr., 1883, **28**, 41–110. pl. & 4 figs. 1883.1

Fische, p. 58–60. Mesodon, Gyrodus, Hemipristis, Strophodus.

—— Die Fauna des Lias und Dogger in Frauhen und der Oberpfalz. Zeitschr. Deutsch. Geol. Ges., 1901, **53**, 512–569. pl. & 4 figs. 1901.1

Schlüter, *Clemens August Joseph* [1836 —] Ueber die Verbreitung der Gattung Protopterus. Sitzber. Niederrhein. Ges. Bonn, 1866, 68. 1866.1

—— Ueber einen fossilen Fisch aus Westphalen. Verh. Naturhist. Ver. Preuss. Rheinl. Westph., 1867, 24. Jahrg. (3. ser. 4. Jahrg.), 20–21. 1867.1

—— Ueber *Enchodus halocyon* [*lewesiensis*] aus dem Kreidemergel von Darup. Verh. Naturhist. Ver. Preuss. Rheinl. Westph., 1869, 26. Jahrg. (3. ser. 6. Jahrg.) 210–211. 1869.1

—— Ueber die Fischgattung Ancistrodon. Verh. Naturf. Ver. Preuss. Rheinl. Westph., 1881, **38**, 61–62. 3 figs. 1881.1

—— Ueber Panzerfische aus dem rheinisch-westfälischen Devon. Verh. Naturhist. Ver. Preuss. Rheinl. Westph., 1888, **44** (Correspondbl.), 120–128. 1888.1

Ceraspis, n. g., Pteraspis, Scaphaspis, Drepanaspis, Pterichthys.

Schlüter, *Clemens August Joseph,* & **Marck,** *W. von der. See* **Marck** & **Schlüter.**

Schlumberger, *Charles.* Dent de *Ceratodus runcinatus* Plien. Bull. Soc. Géol. France 1861–62 (1862), 2. sér. **19**, 707–708. 1862.1

Schmalhausen, *J. J.* Zur Morphologie der unpaaren Flossen. 1912.1

i. Die Entwicklung des Skelettes und der Muskulatur der unpaaren Flossen der Fische. Zeitschr. Wiss. Zool., 1912, **100**, 509–587. 4 pls.
ii. Bau und Phylogenese der unpaaren Flossen und insbesonders der Schwanzflosse der Fische. *Ibid.*, 1913, **104**, 1–80. 14 figs.

—— Die unpaaren Flossen des Fisches und deren Phylogenie [Text in Russian with German résumé] Mém. Soc. Nat. Kiev, 1913, **23**, 1–256. 6 pls. 1913.1

Schmarda, *Ludwig K.* Ueber das Erscheinen exotischer Fische im adriatischen Meere. Med. Jahrb. Oesterr., 1847, 3. Heft, 257–262. 1847.1

—— Die geographische Verbreitung der Thiere. 3 vols. Wien, 1853. 8°. 1853.1

—— Die maritimen Producten der oesterreichen Küstenländer. Wien, 1864. 8°. 1864.1

—— Die Cultur des Meeres in Frankreich. Wien, 1869. 8°. 1869.1

Schmeckebier, *L. F.* Catalogue and index of publications of the Hayden, King, Powell and Wheeler surveys. Bull. U. S. Geol. Surv. 1904, no. 222. 208 p. 1904.1

Schmeil, *O.* Wandtafeln für den zoologischen Unterricht. Stuttgart, 1905. pl. 8°. 1905.1

Tafel 10, Süsswasserfische, von P. Klapper.

Schmeltz, *J. D. E.* [1839–1909] Ueber *Ceratodus forsteri.* Verh. Ver. Naturw. Unterhalt. Hamburg 1871–74 (1875), 64–65. 1875.1

Schmid, *B.* Ueber die Einwirkung von Veronal und Trional auf Fische; ein Beitrag zu dem Kapitel: schlafen die Fische? Monats. Naturw. Unterr. Schulgat., Leipzig, 1911, **4**, 311–312. 1911.1

Schmid, *C.* Fischbrutresultate im Kanton Glarus. Ber. Schweiz. Fischerei Ver., 1885, no. 3, 10. Also separate; Zürich, 1885. 4°. 1885.1

Schmid, *E. E.* Die Fischzähne der Trias bei Jena. Nova Acta Acad. Leop. Carol., 1862, **29**, 1–42. Also separate; Jena, 1861. 42 p. 4°. Abstract in Neues Jahrb. Mineral., 1862, 765–766. 1862.1

Schmid, *Karl.* Naturhistorische Beschreibung der Fische. München, 1822. 4°. 1822.1

Schmid, *Robert.* Forellen als Vegetarianer. Mitth. Fischereiwesen, München, 1876, 1. Jahrg., 20–21. 1876.1

Schmidel, *Ulrich.* Viaje al Rio de la Plata (1534–1554) Notas bibliográficas y biográficas por Bartoloméo Mitre. Prólogo, traducción y annotaciónes por Samuel A. Lafone Quevado. Buenos Aires, 1903. 499 p. illust. & maps. 8°. 1903.1

Schmid-Monnard, *Carl.* Die Histogenese des Knochens der Teleostier. Zeitschr. Wiss. Zool., 1893, **39**, 97–136. 4 pls. 1893.1

Schmidt, —— (aus Schleusingen) Weiteres über die Anstalt für künstliche Forellenzucht in St. Kilian bei Schleusingen. Zeitschr. Landw. Centralver. Prov. Sachsen, 1869, **26**, 165–170. *Ibid.*, 1870, **27**, 216–218. 1869.1

Schmidt, *A. H.* Untersuchungen über das Ovarium der Selachier. Tidjschr. Nederl. Dierk. Ver., Leiden, 1898, 2. ser. **6**, 1–108. 3 pls. 1898.1

Schmidt, *Bruno.* Das Gebiss des *Cyclopterus lumpus* L. Jena. Zeitschr. Naturw., 1913, **49**, 313–372. 3 pls. & 23 figs. 1913.1

Schmidt, *E.* Die Flunder als Aquarienfisch. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 385–387. 1912.1

Schmidt, [*Ernst*] *Johannes* [1877 —] Fiskeriundersøgelser ved Island og Færøerne i sommeren 1903. Skrift. Komm. Havunders., Kjøbenhavn, 1904, **1**, 1–148. 21 figs. 1904.1

—— On pelagic post-larval halibut (*Hippoglossus vulgaris* Flem. and Hippoglossoïdes Walb.) Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1904, **1**, no. 3, 1–12. pl. 1904.2

—— Some preliminary remarks on the identification of pelagic post-larval forms of Gadus. Copenhagen, 1904. 4 p. 3 pls. 8°. 1904.3

—— De atlantiske torskearters (Gadus-slægtens) pelagiske yngel i de postlarvale stadier. En diagnostisk monografi [The pelagic post-larval stages of the Atlantic species of Gadus.

Schmidt, *E. J.*

A monograph] Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1905, **1**, 1–77. 3 pls. *Ibid.*, **2**, no. 2, 1–20. pl. 1905.1

—— On the larval and post-larval stages of the torsk (*Brosmius brosme* Ascan.) Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1905, **1**, no. 8, 1–10. pl. 1905.2

—— Contributions to the life history of the eel [*Anguilla vulgaris* Flem.] (In Bericht über die Tätigkeit der Commission C_2 in der Periode 1903–1906. 4. Conseil Perman. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1906, **5**, 137–264; 267–273. 4 pls. & 6 figs. & 3 maps) 1906.1

—— On the larval and post-larval development of the argentines (*Argentina silus* Ascan. and *Argentina sphyræna* Linné) with some notes on *Mallotus villosus* O. F. Müller. Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1906, **2**, no. 4, 1–20. 2 pls. 1906.2

—— On the pelagic post-larval stages of the lings (*Molva molva* Linn. and *Molva byrkelange* Walbaum) Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1906, **2**, no. 3, 1–15. pl. & figs. 1906.3

—— The pelagic post-larval stages of the Atlantic species of Gadus. II. Medd. Komm. Havunders., Kjøbenhavn, 1906. 20 p. pl. 4°. 1906.4

—— Marking experiments on plaice and cod in Icelandic waters. Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1907, **2**, no. 6, 1–23. figs. 1907.1

—— On the post-larval development of the hake (*Merluccius vulgaris* Flem.) Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1907, **2**, no. 7, 1–9. pl. & figs. 1907.2

—— On the post-larval development of some North Atlantic gadoids (*Raniceps raninus* Linn. and *Molva elongata* Risso) Medd. Komm. Havunders., Kjøbenhavn, ser. plankton, 1907, **1**, no. 8, 1–14. pl. & fig. 1907.3

—— Marking experiments on plaice and cod in Icelandic waters; post-larval development of *Merlucius vulgaris*. Komm. Havunders., Kjøbenhavn, 1908. 34 p. pl. & 2 maps. 1908.1

—— On the post-larval stages of the John Dory (*Zeus faber* L.) and some other acanthopterygian fishes. Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1908, **2**, no. 9, 1–12. pl. 1908.2

—— The distribution of the pelagic fry and the spawning regions of the gadoids in the North Atlantic from Iceland to Spain. Based chiefly on Danish investigations. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1909, **10** *B*, no. 4, 1–230. 10 maps & 15 figs. 1909.1

—— Ferskvandsaalenes (Anguillula) udbredelse i verden I. det atlantiske ocean og tilgrænsende omraader [The distribution of the freshwater eels (Anguillula) throughout the world] Kgl. Danske Vidensk. Selsk. Skrift., Kjøbenhavn, 1909, 7. ser. **8**, 119–178. pl. 1909.2

—— On the distribution of freshwater eels throughout the world. I. Atlantic ocean and adjacent regions. A biographical investigation. Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1909, 1–45. 1909.3

—— On the occurrence of Leptocephali (larval murænoids) in the Atlantic west of Europe. Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1909, **3**, no. 6, 1–19. 2 pls. 1909.4

—— Remarks on the metamorphosis and distribution of the larvæ of the eel (*Anguilla vulgaris* Turt.) Medd. Komm. Havunders., Kjøbenhavn, ser. fiskeri, 1909, **3**, no. 3, 1–17. pl. 1909.5

—— On the distribution of freshwater eels. Rept. Brit. Assoc. Adv. Sci., 79. meet., 1909, 511–515. 1909.6

—— *Leptocephalus hyoproroïdes* and *L. thorianus*. Zool. Anz., 1910, **36**, 79. 1910.1

—— Biology of the eel-fishes, especially of the conger. Nature, 1911, **86**, 61–63. 2 figs. 1911.1

—— Fünf Jahre dänischer Untersuchungen über die Biologie der aalartigen Fische. Fischerbote, Hamburg, 1911, **3**, 374–379. 1911.2

—— Contributions to the biology of some north Atlantic species of eels. Vidensk. Medd. Naturhist. Foran., Kjøbenhavn, 1912, **64**, 39–51. pl. 1912.1

—— Danish researches in the Atlantic and Mediterranean on the life-history of the freshwater eel (*Anguilla* *vulgaris* Turt.) with notes on other species. Intern. Rev. Hydrobiol., Leipzig, 1912, **5**, 317–342. 6 pls. 1912.2

—— Danske undersøgelser i Atlanterhavet og Middelhavet over ferskvandsaalens biologi [Danish investigations in the Atlantic and the Mediterranean of the biology of the eel] Skrift. Komm. Havunders., København, 1912, no. 8, 1–33. 3 pls. 1912.3

—— Five years' Danish investigations on the biology of the eel. Rept. Brit. Assoc. Adv. Sci., 81. meet., 1912, 409–412. 1912.4

—— The reproduction and spawning-places of the freshwater eel (*Anguilla vulgaris*) Nature, 1912, **89**, 633–636. fig. 1912.5

—— Ueber die Fortpflanzung des Aals und seine Laichplätze, eine zusammenfassende Uebersicht. Fischerbote, Hamburg, 1912, **4**, 201–209. 1912.6

—— *Gadiculus argenteus* und *Gadiculus thori*. København, 1913. figs. 4°. 1913.1

—— The larval form of *Chlopsis bicolor* Raf. Vidensk. Medd. Naturh. Foren. København, 1913, **64**, 53–56. 1913.2

—— On the identification of murænoid larvæ in their early ("preleptocephaline") stages. Medd. Komm. Havunders., København, ser. fiskeri, 1913, **4**, no. 2, 1–13. 1913.3

—— First report on eel investigations. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., Copenhague, 1914, **18**, 30. map & 2 figs. 1914.1

—— On the classification of the freshwater eels (Anguilla) Medd. Havunders., København, ser. fiskeri iv, 1914, **7**, 19. 1914.2

Schmidt, *F. W.* [1751–1834] Versuch eines Verzeichnisses aller in Böhmen bisher bemerkten Thiere. Samml. Physik.-ökonom. Aufsätze, Prag, 1795, **1**, 64. 1795.1

Schmidt, *Franz.* Rogenaale. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1874, 28. Jahrg., 137–138. 1874.1

—— Ueber das Fischsterben. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1874, 28. Jahrg., 134–137. 1874.2

—— Zur Lebensweise des Aales. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1878, 31. Jahrg., 102–110. 1878.1

Schmidt, *Friedrich* [1832–1908] Ueber *Thyestes verrucosus* Eichw. und *Cephalaspis schrenckii* Pand., nebst einer Einleitung über das Vorkommen silurischer Fischreste auf der Insel Oesel. Verh. Mineral. Ges. St. Petersb., 1866, 2. ser. **1**, 217–250. 3 pls. 1866.1

—— Further remarks on Pteraspis. Geol. Mag., 1873, **10**, 330–331. 1873.1

The author claims to have found osseous lacunæ in the shield of Pteraspis. *See also* reply by E. R. Lankester, this volume, p. 478.

—— Note on *Pteraspis kneri*. Geol. Mag., 1873, **10**, 152–153; 330–331. 3 figs. — Neues Jahrb. Mineral., 1874, 105. 1873.2

—— Ueber die Pteraspiden überhaupt und über *Pteraspis kneri* aus den obersilurischen Schichten Galiziens insbesondere. Verh. Mineral. Ges. St. Petersb., 1873, 2. ser. **8**, 132–152. Abstract in Neues Jahrb. Mineral., 1874, 775. 1873.3

—— Ueber neue silurische Fischfunde auf Oesel. Neues Jahrb. Mineral., 1893, **1**, 99–101. 1893.1

—— Ueber *Cephalaspis* (*Thyestes*) *schrencki* Pand. aus dem Obersilur von Rotzekül auf Oesel. Mélanges Géol. Paléont. Acad. Imp. Sci. St. Pétersb., 1894, **1**, 203–210. pl. 1894.1

Schmidt, *Friedrich.* Die mittelenglische Version des Elucidariums des Honorius Augustodunensis. Burghausen-a-S., 1909. xxix, 35 p. 8°. 1909.1

The Latin original, first printed in 1479, was frequently republished and translated. Concerning its authorship *see* Brandt, C. J. Lucidarius, en folkebog fra middelalderen udgivet af det nordiske Literatur-Samfund ved C. J. Brandt. København, 1849. Also Carus, V. Geschichte der Zoologie, p. 270. München, 1872.

Schmidt, *Karl.* Vollständige Naturgeschichte in lithographischen Abbildungen. 6 vols. München, 1818–23. 4°. 1820.1

Bd. iv, Fische. 27 pls.

Schmidt, *L.* Untersuchungen zur Kenntnis des Wirbelbaues von *Amia calva*. Zeitschr. Wiss. Zool., 1892, **54**, 748–764. pl. & 5 figs. 1892.1

Schmidt, *Landn* (*editor*) Vezaték a Termesaatrajzi Füzatek elsö tiz évi folyamának foglalatjahoz, 1877–1886. Budapest, 1887. 420 p. 8°. 1887.1

Schmidt, *Martin* [1863 —] Ueber Oberen Jura in Pommern. Beiträge zur Stratigraphie und Paläontologie. Abh. Preuss. Geol. Landesanst., 1905, n. s. 41. Heft, 1–222. 10 pls. 1905.1

Schmidt, *P.* Om fiskeavlen. Aftenbladet, Christiania, 1866, nos. 52, 55, 61, 64. 1866.1

Schmidt, *P. F.* Sur les nouveaux appareils mécaniques de l'organisme animal; les valves glissantes. C. R. Soc. Biol. Paris, 1915, **78**, 309. 1915.1

Valves qui assurent clôture complète de la fente operculaire chez les Pleuronectidæ.

Schmidt, *Peter.* On the Pacific species of Hippoglossoides. Ann. Mag. Nat. Hist., 1915, 8. ser. **16**, 299–308. 1915.1

Schmidt, *Petr Yulievich* [= *Peter Julius*] [1872 —] Ueber die Fischerei auf der Insel Sachalin. [Text in Russian] Congr. Intern. Pêche Piscult., St. Pétersb., 1902, pt. 2, 51–61. 1902.1

—— Ueber die geographische Verbreitung der Fische in den östlichen Meeren. C. R. Congr. Intern. Pêche, St. Petersb., 1903, pt. 1, 27–37. 1903.1

—— On the *Liparis* (*Trismegistus*) *owstoni* Jordan & Snyder. Proc. U. S. Nat. Mus., 1904, **28**, 189–191. 2 figs. 1904.1

—— Pisces marium orientalium Imperii Rossici [Text in Russian] St. Petersburg, 1904. xi, 466 p. 6 pls. 31 figs. 1904.2

—— Sur un poisson de grande profondeur du Japon, *Liparis* (*Trismegistus*) *owstoni* Jordan & Snyder [Text in Russian] Ann. Mus. Zool. Acad. Sci. St. Petersb., 1904, **9**, xvii–xix. 1904.3

—— Ueber einige Fische aus den Ost-Meeren Russlands [Text in Russian] C. R. Trav. Soc. Nat. St. Pétersb., 1904, **35**, 385–386. 1904.4

—— Ueber die Verbreitung der Fische im nördlichen Stillen Ozean und die damit zusammenhängenden zoogeographischen Probleme. C. R. 6. Congr. Intern. Zool., Berne, 1904, 561–572. 2 figs. 1904.5

—— Das Seefischereigewerbe auf der Insel Sachalin [Text in Russian] St. Petersburg, 1905. x, 458 p. 31 pls. & 45 figs. map. 8°. 1905.1

Schmidt, *P. Julius,* & **Schokalsky,** *J. M.* *See* **Schokalsky** & **Schmidt.**

Schmidt, *Robert.* Die Salzwasserfauna Westfalens. 41. Jahresber. Westfäl. Provinz. Ver. (*Zool. Sekt.*), 1913, 29–94. 1913.1

Schmidt, *Traugott.* Die bekanntesten Süsswasser-Fisch-Arten für industrielle Verwendung gezeichnet. Plauen-i.-V., 1904. 5 pls. 8°. 1904.1

Schmidt, *V.* Die Chorda dorsalis und ihr Verhalten zur Wirbelsäule im Schwanzende der Wirbelthiere. Sitzber. Naturf. Ges. Univ. Dorpat, 1893, **10**, 142–152. 1893.1

Schmidt, *Valdemar.* Beretning om moderne af fiskere i Raabjerg sogn og skagen. Nord. Tidsskr. Fiskeri, 1878, n. s. 4. Jahrg., 134–138. 1878.1

Schmidt, *Wilhelm.* Eine Zuchtversuch im Freien [*Heros facetus*] Natur u. Haus, 1903, 13. Jahrg., 217–219. 1903.1

Schmidtlein, *Richard.* Beobachtungen über die Lebensweise einiger Seethiere innerhalb der Aquarien der Zoologischen Station. Mitth. Zool. Stat. Neapel, 1879, **1**, 1–27; 489–501. 1879.1

Selachier und Grundfische.

Schmidt-Nielsen, *Sigval.* Chemical and microbiological investigations on the curing of herring. I. Preliminary communication. Rept. Norwegian Fishery Mar. Invest., 1900, **1**, no. 8, 1–24. 1900.1

—— Litt om enkelte benfiskes osmotiske tryk og dets forhold til det ydre miljo [Ueber den osmotischen Druck bei einigen Teleostei und seine Abhängigkeit vom ausseren Milieu] Kgl. Norske Vidensk. Selsk. Skrift., Trondhjem, 1909, no. 3. 1909.1

—— Om saltvandsfisk i fersk vand. Nyt. Mag. Nat., 1910, **48**, 378–379. 1910.1

Schmiedeknecht, *Otto.* Die Wirbeltiere Europa's, mit Berücksichtigung der Fauna von Vorderasien und Nordareka. Jena, 1906. 472 p. 8°. 1906.1

Pisces, p. 311–455.

Schmincke, *Alexander.* Die Regeneration der quergestreiften Muskelfasern bei den Wirbeltieren. Eine vergleichende pathologisch-anatomische Studie. I. Ichthyopsiden. Verh. Phys.-Med. Ges. Würzburg, 1907, n. s. **39**, 15–130. 2 pls. 1907.1

Schmitt, *Franz.* Systematische Darstellung der Doppelembryonen der Salmoniden. Arch. Entw. Mech. Leipzig, 1901, **13**, 34–134. pl. & 19 figs. 1901.1

—— Ueber die Gastrulation der Doppelbildungen der Forelle, mit besonderer Berücksichtigung der Concrescenztheorie. Verh. Deutsch. Zool. Ges., 1902, **12**, 64–83. 7 figs. — Sitzber. Phys.-Med. Ges. Würzburg, 1902, 30–31. 1902.1

Schmitz, *Wilhelm. Haplochilus panchax.* Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 213–214. fig. 1901.1

—— Der Piratenbarsch (*Alvordius aspero*) Natur u. Haus, 1901, **9**, 149–150. 1901.2

Schmula, —— De piscium squamis nonnulla. Berolini, 1854. 8°. 1854.1

Schnaudigel, *Otto A. F.* Neurofibrillen in den Retinaganglienzellen der Selachier. Klin. Monatsbl. Augenheilk., 1905, 46. Jahrg., pt. 2, 182–184. — Ber. Versam. Ophthalm. Ges. Wiesbaden, 1905, **32**, 329–331. 1905.1

Schnee, *S.* Farbenwechsel des Saugfisches (Echeneis) Zool. Garten, 1902, **43**, 267–268. 1902.1

—— Beiträge zur Fauna der Marshall-Inseln IV. Zool. Garten, 1903, 44. Jahrg., 93–100. *Ibid.*, 1904, 45. Jahrg., 23–28; 111–116. *Ibid.*, 1905, 46. Jahrg., 237–242. 1903.1

—— Die Haie des Sydneyer Hafens. Zool. Garten, 1903, 44. Jahrg., 17–20. 1903.2

—— Nochmals die Fabel von der Seeschlange nebst einigen Bemerkungen über Schwertfische. Zool. Garten, 1903, 44. Jahrg., 258–260. 1903.3

—— Ein neuer Fall von Mimikry. Aus der Natur, 1905, 1. Jahrg., 337–339. pl. 1905.1

Ophichthys colubrinus mimicking *Platurus colubrinus.*

—— Schlammspringer und Onchidium Schnecken. Natur. u. Haus, 1905, 13. Jahrg., 241–244. 2 figs. 1905.2

—— Die biologische Bedeutung des Glanzes der Fischschuppen [Text in Russian] Naturfreund, St. Petersb., 1908, **3**, 308–313. 1908.1

—— Vorläufige Mitteilungen über eine beobachtete Vergiftung durch den Feuerfisch (Pterois) Arch. Schiffs. Tropenhygiene, Leipzig, 1908, **12**, 166–167. 1908.2

—— Ein gefährlicher Fisch des hiesigen Meeres. Arch. Schiffs. Tropenhygiene, Leipzig, 1909, **13**, 168. 1909.1

—— Drei Fälle von Verletzung durch den giftigen Fisch Synanceia (Nufu) Arch. Schiffs. Tropenhygiene, Leipzig, 1911, **15**, 312–316. 1911.1

Schneider, *Anton Friedrich* [1831 —] On the developmental history of Petromyzon. Ann. Mag. Nat. Hist., 1873, 4. ser. **11**, 236–238. 1873.1

—— Ueber den Bau von *Amphioxus lanceolatus.* 17. Ber. Oberhess. Ges. Natur- u. Heilk., 1878, 112–115. — Ann. Mag. Nat. Hist., 5. ser. **1**, 262–264. 1878.1

—— Beiträge zur vergleichenden Anatomie und Entwicklungsgeschichte der Wirbelthiere. Berlin, 1879. 16 pls. 4°. 1879.1

Review by C. Gegenbaur in Morph. Jahrb. **5**, 526.

—— Ueber die Arten von Bdellostoma. Arch. Naturgesch., 1880, 46. Jahrg., **1**, 115–116. 1880.1

—— Ueber die Nerven von Amphioxus, Ammocœtes und Petromyzon. Zool. Anz., 1880, **3**, 330–334. 1880.2

—— Ueber den Rectus von Petromyzon. Zool. Anz., 1882, **5**, 164. 1882.1

—— Ueber die Begattung der Knorpelfische. Zool. Beitr., Breslau, 1883, **1**, 61. 1883.1

—— Ueber die Flossen der Dipnoi und die Systematik von Lepidosiren und Protopterus. Zool. Anz., 1886, **9**, 521–524. 1886.1

—— Ueber die Dipnoi und besonders die Flossen derselben. Zool. Beitr., Breslau, 1887, **2**, 97–105. pl. 1887.1

—— Studien zur Systematik und zur vergleichenden Anatomie, Entwicklungsgeschichte und Histologie der Wirbelthiere. Zool. Beitr., Breslau, 1890, **2**, 268–270. 5 pls. 1890.1

—— Zur frühesten Entwickelung besonders der Muskeln der Elasmobranchier. Zool. Beitr., Breslau, 1890, **2**, 251–266. pl. 1890.2

Schneider, *C.* Lehrbuch der Histologie. Jena, 1904. 1904.1

Schneider, *Fr. Cyprinodon variegatus.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 662–664. fig. 1909.1

—— Meine Stichlinge. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 542–543. 1909.2

Schneider, *F. W.* Bibliothek der Forst und Jagd-Literatur; ein Verzeichniss der über alle Theile des Forst- und Jagdwesens und über Fischerei in Deutschland erschienenen Schriften, umfassend den Zeitraum vom Jahre 1842 bis zum Jahre 1856. Berlin, 1856. 8°. 1856.1

Schneider, *Guido.* Ueber die Entwicklung der Ausführungsgänge der Geschlechtsorgane bei *Cobitis tænia* und *Phoxinus lævis.* Vorläufige Mittheilung. Zool. Anz., 1894, **17**, 121–122. 1894.1

—— Ueber den Killo und seine Existenzbedingungen an der Estländischen Küste. Reval, 1895. 10 p. map. 8°. 1895.1

Ueber die Entwickelung der Genitalcanäle bei *Cobitis tænia* L., und *Phoxinus lævis* Ag. Mém. Acad. Sci. St. Pétersb., 1895, 8. sér. **2**, no. 2, 1–20. pl. 1895.2

—— Ueber die Niere und die Abdominalporen von *Squatina angelus.* Anat. Anz., 1897, **13**, 393–401. 3 figs. — Zool. Centralbl., 3. Jahrg., 885–886. 1897.1

—— Schutz der Seefischen. Baltische Wochenschr., 1898, **36**, no. 30. 1898.1

—— Ueber den Dorsch (*Gadus morrhua*) Baltische Wochenschr., 1898, **36**, no. 5. 1898.2

—— Die Ueberfischung von Meeresteilen. Baltische Wochenschr., 1898, **36**, no. 37. 1898.3

—— Einiges über Resorption und Excretion bei *Amphioxus lanceolatus* Yarrell. Anat. Anz., 1899, **16**, 601–605. 2 figs. 1899.1

—— Hawaintoja kalojen rawinnosta pääasiallisesti Espoon saaristossa. Suomen Kalastuslehti, 1900, **9**, 121–124. 1900.1

—— Iakttagelser om fiskars födoämnen hufvudsakligen i Esbo skärgård. Fiskeritidskr. Finl., 1900, **9**, 121–125. 1900.2

—— Ichthyologische Beiträge, 1900–01. 1900.3

i. Notizen über die an der Südküste Finlands in den Skären des Kirchspieles Esbo vorkommenden Fische. Unter Mitwirkung von Dr. K. M. Levander zusammengestellt von Guido Schneider. Acta Soc. Fauna Flora Fenn., 1900, **20**, no. 1, 1–67. 2 pls.

ii. Fortsetzung der Notizen über die an der Südküste Finlands vorkommenden Fische. *Ibid.*, 1901, **22**, no. 4, 1–57 p. pl.

iii. Ueber die in den Fischen des finnischen Meerbusens vorkommenden Endoparasiten. *Ibid.*, 1902, **23**, no. 2, 1–87.

—— Mitteilungen über die Nahrung der Fische, hauptsächlich in den Skären des Kirchspieles Esbo. Baltische Wochenschr., 1900, **38**, 534. 1900.4

—— Der Sheltopusik. Zool. Garten, 1900, **41**, 117–120. 1900.5

—— Ueber die Geniessbarkeit unseres Dorsches. Baltische Wochenschr., 1900, **38**, 447. 1900.6

—— Ueber die Seefischerei an den Küsten der Ostsee, des Eismeeres und des Schwarzen Meeres. Baltische Wochenschr., 1900, **38**, 175–178. 1900.7

—— Einige Bemerkungen zur Fischkunde in den Ostseeprovinzen. Korrespbl. Naturf. Ver. Riga, 1901, **44**, 18–20. 1901.1

—— Einige Beobachtungen über die Nahrungsauswahl der Fische des finnischen Meerbusens. Deutsch. Fischerei Zeitg., 1901, 24. Jahrg., Beilage no. 41, 489. 1901.2

—— Muutamia tilastollisia tietoja kalojen loismadoista Suomen eteläsaaristossa. Suomen Kalastuslehti, 1901, **10**, 143–146. 1901.3

—— Några statistiska meddelanden angående parasiter i fiskar från Finlands södra Skärgård. Fiskeritidskr. Finl., 1901, **10**, 143–147. — Baltische Wochenschr., 1901, **39**, 438. 1901.4

—— Ueber die Fortpflanzung von *Clupea sprattus* L. im finnischen Meerbusen. Zool. Anz., 1901, **25**, 9–11. 1901.5

—— *Bothrimonus nylandicus,* n. sp. Arch. f. Naturgesch., 1902, 68. Jahrg., **1**, 72–78. 2 pls. 1902.1

—— *Caryophyllæus fennicus,* n. sp. Archiv Naturgesch., 1902, 68. Jahrg., **1**, 65–71. pl. 1902.2

—— Om de i Finska viken förekommande fiskarnas val af föda. Fiskeritidskr. Finl., 1902, **11**, 2–4. 1902.3

—— Stint und Stockfisch. Baltische Wochenschr., 1902, **40**, 523. 1902.4

—— Ueber den Fischkonsum in Finland. Baltische Wochenschr., 1902, **40**, 510. 1902.5

—— Das Vorkommen von Larven des Bandwurms *Bothriotænia proboscidea*

Batsch im Magen und Darm von Ostseeheringen (*Clupea harengus membras* L.) Sitzber. Ges. Naturf. Freunde Berlin, 1902, 28–30. 1902.6

—— Anleitung zum Sammeln von Fischparasiten. Korrespbl. Naturf. Ver. Riga, 1903, **46**, 10–17. 1903.1

—— Beiträge zur Kenntniss der Helminthenfauna des finnischen Meerbusens. Acta Soc. Fauna Flora Fenn., 1903, **26**, no. 3, 1–35. pl. 1903.2

—— Ein Beitrag zur Physiologie der Niere niederer Wirbeltiere. Skandinav. Arch. Physiol., 1903, **14**, 383–389. 1903.3

—— Einfachere Methoden zur Beurteilung der Gewässer. Baltische Wochenschr., 1903, **41**, 205–206. 1903.4

—— Internationale Meeresforschung. Baltische Wochenschr., 1903, **41**, 171. 1903.5

—— Nochmals über die von J. M. Leesmann auf dem internationalen Kongress für Fischerei und Fischzucht vorgeschlagenen Schonmassregeln. Baltische Wochenschr., 1903, **41**, 99. 1903.6

—— Eine primitive Fischkonserve. Baltische Wochenschr., 1903, **41**, 151. 1903.7

—— Sälspäck och sältran. Fiskeritidskr. Finl., 1903, **12**, 216. 1903.8

—— Strandbesitz und Fischereiberechtigung in Estland. Baltische Wochenschr., 1903, **41**, 43. 1903.9

—— Ueber den Luftgehalt der Gewässer. Baltische Wochenschr., 1903, **41**, 462–463. 1903.10

—— Ueber die Urgeschlechtszellen der Knochenfische. Korrespbl. Naturf. Ver. Riga, 1903, **46**, 4–9. 1903.11

—— Ueber die von J. M. Leesmann auf dem internationalen Kongress für Fischerei und Fischzucht in St. Petersburg vorgeschlagenen Schonmassregeln. Baltische Wochenschr., 1903, **41**, 40. 1903.12

—— Ueber einen Fall von Hermaphroditismus bei *Lota vulgaris*. Medd. Soc. Fauna Flora Fenn., 1903, **29**, 103–105. fig. 1903.13

—— Ueber zwei Endoparasiten aus Fischen des finnischen Meerbusens. Medd. Soc. Fauna Flora Fenn., 1903, **29**, 75–76. 1903.14

—— Zur Seehundsfrage. Baltische Wochenschr., 1903, **41**, 434. 1903.15

—— Eine Besichtigung der Fischzuchtanstalten von Evois und Karlsberg in Tavastland. Baltische Wochenschr., 1904, **42**, 430–431. 1904.1

—— Der finländische Fischerei Dampfer "Nautilus." Baltische Wochenschr., 1904, **42**, 299. 1904.2

—— Fische aus dem Oberen See. Revalsche Zeitg., 1904, no. 197. 1904.3

—— Fischereigenossenschaften. Baltische Wochenschr., 1904, **42**, 96–97. 1904.4

—— Die Fischerschule in Evois. Baltische Wochenschr., 1904, **42**, 308. 1904.5

—— Freiherr Edward Hisinger. Baltische Wochenschr., 1904, **42**, 412. 1904.6

—— Gekennzeichnete Fische. Baltische Wochenschr., 1904, **42**, 227. 1904.7

—— Eine hydrographische Exkursion auf dem Fischereidampfer "Nautilus." Baltische Wochenschr., 1904, **42**, 433–434. 1904.8

—— Leuchtende Fische in den Tiefen der Ostsee. Baltische Wochenschr., 1904, **42**, 374. 1904.9

—— Neues über in Finland gekennzeichnete Aale. Baltische Wochenschr., 1904, **42**, 332. 1904.10

—— Der Nutzen und Schaden des Schilfes. Baltische Wochenschr., 1904, **42**, 261–262. 1904.11

—— Om sjöarnes lufthalt. Fiskeritidskr. Finl., 1904, **13**, 50–51. 1904.12

—— Rebskonserven. Baltische Wochenschr., 1904, **42**, 225–227. 1904.13

—— In Sachen des Oberen Sees. Revalsche Zeitg., 1904, no. 194. 1904.14

—— Sœlspœk og Sœltran. Norsk Fiskerit., 1904, **43**, 44. 1904.15

—— Ueber einen Fall von Hermaphroditismus bei *Gasterosteus aculeatus*. Medd. Soc. Fauna Flora Fenn., 1904, **30**, 7–8. 1904.16

—— Ueber einen Fall von Hermaphroditismus bei *Lota vulgaris*. Medd. Soc. Fauna Flora Fenn., 1904, **29**, 103–105. 1904.17

Schneider, *G.*

—— Ueber zwei Endoparasiten aus Fischen des finnischen Meerbusens. Medd. Soc. Fauna Flora Fenn., 1904, **29**, 75–76. 1904.18

—— Ein Vorschlag zur Reorganisation der Bewirtschaftung des Obersees bei Reval. Reval, 1904. 16 p. 8°. 1904.19

—— Zur Fischkunde in den Ostseeprovinzen. Korrespbl. Naturf. Ver. Riga, 1904, **47**, 65–66. 1904.20

—— Dr. Oscar Nordqvist. Baltische Wochenschr., 1905, **43**, 7. 1905.1

—— Einiges über Seefischerei, Bootbau und Fischhandel. Baltische Wochenschr., 1905, **43**, 265–266. 1905.2

—— Fischexport aus Finland. Baltische Wochenschr., 1905, **43**, 60. 1905.3

—— Gekennzeichneter Dorsch. Baltische Wochenschr., 1905, **43**, 434. 1905.4

—— Die Ichthyotænien des finnischen Meerbusens (In Festschrift zum 60. Geburtstage J. A. Palmén, Bd. i, p. 1–31. pl. Helsingfors, 1905. 8°) 1905.5

—— Das Labferment des Dorschmagens. Baltische Wochenschr., 1905, **43**, 389. 1905.6

—— Miszellen von der Wasserkante. Baltische Wochenschr., 1905, **43**, 433–434. 1905.7

—— Naturdenkmäler. Baltische Wochenschr., 1905, **43**, 182. 1905.8

—— Die neuesten Forschungen über die Wanderungen des Aales. Baltische Wochenschr., 1905, **43**, 285–286. 1905.9

—— Der Obersee bei Reval. Medd. Geogr. Fören. Finland, 1905, **7**, 1–8. map. 1905.10

—— Die Ostseefischerei in ihrer jetzigen Lage. Baltische Wochenschr., 1905, **43**, 7. 1905.11

—— Pori abdominales. Anat. Anz., 1905, **27**, 558. 1905.12

Refers to article by B. Haller, 1905.1, *supra.*

—— Wie verwerten wir am vorteilhaftesten unseren Dorsch? Baltische Wochenschr., 1905, **43**, 303. 1905.13

—— Aufruf zur freiwilligen Mitarbeit an der internationalen Meeresforschung. Baltische Wochenschr., 1906, **44**, 415. 1906.1

—— Ein interessanter See. Baltische Wochenschr., 1906, **44**, 181–182. 1906.2

—— Mindestmass für den Aal. Baltische Wochenschr., 1906, **44**, 416. 1906.3

—— Om möjligheten att odla ostron i mellersta och östra delarne af Östersjön. Svensk Fiskeritidskr., 1906, **15**, 86–88. 1906.4

—— Ueber den augenblicklichen Stand der Süsswasserforschung in Finland. Ann. Biol. Lacustre, 1906, **1**, 43–49. 1906.5

—— Verschiedene Ratschläge zur Hebung der Fischbestände in Flüssen und Seen. Baltische Wochenschr., 1906, **44**, 72–73. 1906.6

—— Wieder etwas über den Dorsch. Baltische Wochenschr., 1906, **44**, 416. 1906.7

—— Wissenschaftliche Versuchsfischerei bei den Wasserfällen der Dalelf in Schweden. Baltische Wochenschr., 1906, **44**, 415–416. 1906.8

—— Die Fischereiversuchsstation Aneboda im südlichen Schweden. Baltische Wochenschr., 1907, **45**, 260–261. 1907.1

—— Några meddelanden om svartahafs-ostronet. Svensk Fiskeritidskr., 1907, **16**, 21–24. 2 figs. 1907.2

—— Om fiskarnes val af föda och fisks jukdomar i trakten af Aneboda fiskeriförsöksstation. Skrift. Södra Sverig. Fiskeriför., 1907, no. 2, 13–30. 1907.3

—— Pelagische Eier und Jugendformen von Ostseefischen, gesammelt auf den schwedischen Expedition in den Jahren 1902 bis 1907. Svensk. Hydrograf. Biol. Komm. Skrift., 1907, **3**, no. 12, 1–12. 1907.4

—— Petroleum oder Spiritus im Dienst der Fischerei. Baltische Wochenschr., 1907, **45**, 199–200. 1907.5

—— Die schädlichen Folgen der Ueberfischung, wie sie sich in den Plattfisch- und Lachsbeständen zeigen. Baltische Wochenschr., 1907, **45**, 17–19. 1907.6

—— Die Seefischerschulen. Baltische Wochenschr., 1907, **45**, 207. 1907.7

—— Die Wasserbewegung in der Ostsee und ihr Einfluss auf das Leben der Fische. Kurländische Land- Forstwirtschaft. Mitt., 1907, **2**, 52–55. 1907.8

—— Die Behandlung der Lachsfrage auf der letzten Réunion der Internationalen Meeresforschung am 17–21 Juli 1908 in Kopenhagen. Baltische Wochenschr., 1908, **46**, 467. 1908.1

—— Die Clupeiden der Ostsee. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1908, **9**, 66–120. 4 figs. map. — Baltische Wochenschr., 1908, **46**, 149–150. 1908.2

—— Farbenvariationen des Flussbarsches (*Perca fluviatilis*) Korrespbl. Naturf. Ver. Riga, 1908, **51**, 41–46. 1908.3

—— Markierungsversuche mit Aalen und die Wanderungen der Aale in der Ostsee. Baltische Wochenschr., 1908, **46**, 441. 1908.4

—— Pelagische Eier und Jugendformen von Ostseefischen, gesammelt auf den schwedischen hydrographischen Expeditionen in den Jahren 1902–1907. Svensk. Hydrogr. Biol. Komm. Skrift., 1908, **3**, 1–12. 14 pls. & map. 1908.5

—— Zur Beleuchtung der Lachsfrage. Baltische Wochenschr., 1908, **46**, 265–266. 1908.6

—— Ein Beitrag zur Kenntnis der in den Schreibershofer Seen vorkommenden Fische. Korrespbl. Naturf. Ver. Riga, 1909, no. 52, 73–81. 1909.1

—— Eisenbahntransport von Fischen in Schweden und Deutschland. Baltische Wochenschr., 1909, **47**, 478. 1909.2

—— Die Fischzucht Anstalt Engelsberg in Schweden. Baltische Wochenschr., 1909, **47**, 443–444. 1909.3

—— Iktyologiska iakttagelser gjorda under sommaren 1908 vid Aneboda fiskeriförsöksstation. Skrift. Sverig. Fiskerifören., 1909, no. 4, 1–19. 1909.4

—— Die Imprägnierung des Garnes von Fischnetzen. Baltische Wochenschr., 1909, **47**, 449–470. 1909.5

—— Der letzte Internationale Fischereikongress in Washington. Baltische Wochenschr., 1909, **47**, 195. 1909.6

—— Die staatliche Fischereibehörde und die Arbeiten zur Hebung der Fischerei in Schweden. Baltische Wochenschr., 1909, **47**, 26–30. 1909.7

—— Ueber das Wachstum der Aale (*Anguilla vulgaris* Flem.) in den Gewässern Schwedens. Conseil Perm. Intern. Explor. de la Mer, Public. de Circon., 1909, no. 46, 1–18. fig. — Baltische Wochenschr., **47**, 202–203. 1909.8

—— Ueber die Altersbestimmung bei Heringen nach den Zuwachszonen der Schuppen. Svensk. Hydrogr. Biol. Komm. Skrift., 1909. 1909.9

—— Ueber den Verlauf der Strömlingsfischerei 1908 in der Peruaner Bucht nach den Angaben des Herrn Schlachthausdirektors Ed. Glück in Peruan. Baltische Wochenschr., 1909, **47**, 209–212. 1909.10

—— Fischparasiten. Korrespbl. Naturf. Ver. Riga, 1910, **53**, 112–113. 1910.1

—— Ueber den Sprottenfang in der Umgegend von Domesnas im Jahre 1908. Baltische Wochenschr., 1910, **48**, 210–211. 1910.2

—— Ueber den Strömlingsfang bei Domesnäs in den Jahren 1908 und 1909. Baltische Wochenschr., 1910, **48**, 152–155. 1910.3

—— Ueber Fischzucht in Torf- und Mergelgruben. Baltische Wochenschr., 1910, **48**, 14–15. 1910.4

—— Materialien zur Erforschung der Seen Livlands. Sitzber. Naturf. Ges. Univ. Jurjew, 1911, **22**, 3. Abth., 23–36. 2 figs. 1911.1

—— Nahrung und Parasiten der von Dr. R. Streiff im Sommer 1910 bei der zoologischen Station Kielkond beobachteten Fische. Arb. Naturf. Ver. Riga, 1911, n. s. 13. Heft, 7–18. 1911.2

Schneider, *Guido*, & **Björk,** *W*. Resultaten af den internationellen hafsforskuiujens arbete under åren 1907–1909 och sveriges andel daruti. Svensk. Hydrogr. Biol. Komm. Skrift., Kungl. Jordbraks-Depart., 1910, **22**. 1910.1

Schneider, *Guido*, & **Levander,** *K. M*. Ichthyologische Beiträge. Notizen über die an der Südküste Finlands in den Skären des Kirchspieles Esbo vorkommenden Fische. Acta Soc. Fauna Flora Fenn., 1900, **20**, no. 1, 1–67. 2 pls. 1900.1

Schneider, *Guido,* **Levander,** *K. M.,* **Husen,** *E. von,* **Winkler,** *H. von* & others. Der Obersee bei Reval. Arch. Biontologie, Berlin, 1908, **2**, 1–192. 10 pls. & 6 figs. 1908.1

Schneider, *Guido,* & **Pettersson,** *O.* *See* **Pettersson** & **Schneider.**

Schneider, *Guido,* & **Trybom,** *Filip.* *See* **Trybom** & **Schneider.**

Schneider, *H.* Ueber die Augenmuskelnerven der Ganoiden. Jena. Zeitschr. Naturw., 1881, n. s. **8**, 215–242. 2 pls. 1881.1

Schneider, *Johann Gottlob* [1750–1822] Ichthyologiæ veterum specimina, etc. Francofurti ad Viadrum, 1782. 22 p. 4°. 1782.1

"On trouve, dans cette dissertation, des détails sur l'anguille de mer, la sphyrène et la raie pêcheresse des anciens." — H. Cloquet.

—— Proben von der Fischkunde der Alten. Leipzig. Mag. Naturkunde, 1783, 62–98. 1783.1

—— Von den Rochen überhaupt. Leipzig. Mag. Naturkunde, 1783, 265. 1783.2

—— Nachricht von den Originalzeichnungen von Marcgrafs bresilischer Zoologie. Leipzig. Mag. Naturkunde, 1786, 270–278. 1786.1

See also regarding these drawings of Brazilian fishes the references under Lichtenstein, M. H. C., 1818.1, *supra.*

—— Vergleichung des Baues und der Physiologie der Fische, etc. Leipzig, 1787. 1787.1

—— Neue Beiträge zur Naturgeschichte des Rochengeschlechts. Leipzig. Mag. Naturkunde, 1788, 73–90. *Ibid.*, 1789, 265–282. 1788.1

—— Von den Wanderungen der Heringe. Leipzig. Mag. Naturkunde, 1788, 90–95. 1788.2

—— Petri Artedi Synonymia piscium Græca et Latina emendata, aucta atque illustrata. Sive Historia piscium naturalis et literaria ab Aristotelis usque ævo ad seculum XIII deducta, duce Synonymia Piscium Petri Artedi, etc. Lipsiæ, 1789. viii, 352 p. 3 pls. 4°. 1789.1

This is not Artedi's text, but a commentary on the Greek and Latin names applied by him to fishes in his Synonymia Piscium (Ichthyologia, pt. iv), with illustrative extracts from various authors.

—— (*translator*) Sammlung von anatomischen Aufsatzen und Bemerkungen zur Aufklärung der Fischkunde; aus dem französischen und italienischen übersetzt, und mit Anmerkungen und Zusatzen begleitet. Leipzig, 1795. viii, 128 p. 7 pls. 8°. 1795.1

Theil i. Enthaltend Vicq-d'Azyr's Anatomische Kennzeichnen der Fische, und S. Lorenzini's Bemerkungen über die Krampfroschen.

—— M. E. Blochii Systema ichthyologiæ . . . post obitum auctoris correxit, interpolavit J. G. Schneider. Berolini, 1801. 110 pls. 8°. *See* **Block** & **Schneider,** 1801.1, *supra.*

—— Berichtigungen der bisherigen Bemerkungen über das sonderbare Auge des Gross-Auges (*Cobitis anableps* Linn.) nebst einer Beschreibung der übrigen inneren Theile. Neue Schrift. Ges. Naturf. Freunde Berlin, 1803, **4**, 225–232. 1803.1

Schneider, *J. Sparre.* En notits om "Solvkveiten" (*Trachypterus arcticus* Brünn) Vidensk.-Selsk. Forh., Christiania, 1882, no. 15, 1–6. pl. 1882.1

Schneider, *K.* Der Fischer in der antiken Literatur. Aachen, 1892. 8°. 1892.1

Schneider, *Martin.* Die Forelle. Blätt. Aquar.-Terrar. Freunde, 1898, 9. Jahrg., 251–252; 267–268. 1898.1

Schneider, *O.* Der Störfischfang am unteren Kur. 17. Jahresber. Ver. Erdkunde, Dresden, 1879–80 (Wiss. Theil), 86–87. 1879.1

Schneider, *Otto.* Die Tierwelt der Nordsee-Insel Borkum, unter Berücksichtigung der von den übrigen ostfriesischen Inseln bekannten Arten. Abh. Naturw. Ver. Bremen, 1898, **16**, 1–174. 1898.1

—— Zur Kenntniss der Chordascheiden insbesondere der sogenannten Elastica interna bei Cyclostomen und Fischen. Zool. Jahrb. (*Anat. Abt.*), 1913, **36**, 171–214. 7 pls. 1913.1

Schneider von Orelli, *Mathilde.* Untersuchungen über das Auge von *Anableps tetrophthalmus.* Mitt. Nat. Ges. Bern, 1908, 87–113. 14 figs. 1908.1

Schnitzlein, *Adalbert.* Silberhaut der Fischschuppen rücksichtlich des Metallgehaltes und der Ursache des Glanzes. Repert. Pharmacie, 1836, **58**, 302–305. 1836.1

Schnur, —— Systematische Zusammenstellung der im Regierungsbe-

zirke Trier bisher von mir aufgefundenen Reptilien, Fische und Mollusken. Jahresber. Ges. Nützl. Forschungen. Trier, 1847, 70. 1847.1

Schoch, *Gustav* [1833–1899] Ueber die kantonale Fischzucht Anstalt in Meilen. Vierteljahrschr. Naturf. Ges. Zürich, 1874, 19. Jahrg., 199–204. 1874.1

—— Pisciculturversuche in der Schweiz. Circul. Deutsch. Fischerei Ver. 1876 (1877), no. 2, 59–61. 1877.1

—— Die Fische der Schweiz. Zürich, 1879. 8 p. 4°. 1879.1

—— Fischfauna des Kantons Zürich. Zürich, 1879. 1879.2

—— Tabelle zur Bestimmung der Fische der Kanton Zürich. Zürich, 1879. pl. 4°. 1879.3

—— Die Technik in der künstlichen Fischzucht. — Tabelle zur leichten Bestimmung der Fische der Schweiz. — Fischfauna des Kantons Zürich. Zürich, 1880. 19 p. 2 pls. 4°. 1880.1

—— Analytische Tabelle zur Bestimmung der Fische der Schweiz. St. Gallen, 1890. 16 p. 8°. 1890.1

—— Die Bedeutung der Felchen für die schweizerische Fischerei. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1890, **6**, 137–149. Also separate; St. Gallen, 1890. 3 p. 4°. 1890.2

—— Das Fischereikoncordordat zwischen den Kantonen Zürich, St. Gallen, Schwyz und Glarus. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1890, **6**, 107. 1890.3

—— Was fressen unsere Fische? Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1890, **6**, 50. 1890.4

—— Die Glasthiere im Süsswasser. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1891, **7**, 95. 1891.1

—— Die schweizerischen Fischzuchtanstalten. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1891, **7**, 52. 1891.2

—— Ueber bessere Verwerthung der Süsswasserfische. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1891, **7**, 12. 1891.3

—— Allgemeines über den Kampf der Industrie und Fischerei in der Schweiz. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1892, **8**, 28; 37. 1892.1

—— Noch einmal das Dogma von der Brutwassertemperatur. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1892, **8**, 61; 85. 1892.2

—— Ueber die Wiederbevölkerung der zugerischen Gewässer mit Fischen. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1892, **8**, 195; 205. 1892.3

—— Die Unterschiede zwischen der Bevölkerung unserer Seen und Flüsse. Zentralbl. Jagd-, Hundeliebhaber u. Fischereiwesen, 1892, **8**, 165–171. 1892.4

—— Die Bedeutung des Hechtes in unsern Seen. Schweiz. Fischerei Zeitg., 1893, **1**, 285. Also separate; Pfäffikon-Zürich, 1893. 5 p. 8°. 1893.1

—— Statistisches über den Felchenfang. Schweiz. Fischerei Zeitg., 1893, **1**, 61. 1893.2

—— Sterile Gewässer. Schweiz. Fischerei Zeitg., 1893, **1**, 49. 1893.3

—— Unsere Fischzuchtanstalten und deren Betrieb. Schweiz. Fischerei Zeitg., 1893, **1**, 2. 1893.4

—— Vom Bodensee-Zander. Schweiz. Fischerei Zeitg., 1893, **1**, 125. 1893.5

—— Warum sind unsere Salmoniden meist Winterlaichfische? Schweiz. Fischerei Zeitg., 1893, **1**, 255. 1893.6

—— Laichssaison 1893–1894 im Züricher-Rhein. Schweiz. Fischerei Zeitg., 1894, **2**, 17. 1894.1

—— Reminiscenzen an die Züricher-Fischereiausstellung. Schweiz. Fischerei Zeitg., 1894, **2**, 201; 209; 221. 8°. 1894.2

—— Ueber die künstliche Vermehrung der Crustaceen als Fischnahrung. Schweiz. Fischerei Zeitg., 1894, **2**, 25. 1894.3

—— Bodensee-Fischerei. Schweiz. Fischerei Zeitg., 1895, **3**, 97–100. 1895.1

—— Die künstliche Fischzucht. Schweiz. Fischerei Zeitg., 1895, **3**, 125; 141. Also separate; Pfäffikon-Zürich, 1895. 6 p. 8°. 1895.2

—— Allgemeine Reflexionen über die Fischgewässer der Schweiz und deren Bewirthschaftung. Schweiz. Fischerei Zeitg., 1896, **4**, 266–268. 1896.1

Schockaert, *Alice.* Nouvelles recherches comparatives sur la texture et le développement du myocarde chez les vertébrés. Arch. Biol., 1909, **24,** 277–372. 3 pls. 1909.1

Schoebel, *E.*, **Davidoff,** *M. von,* & **Emery,** *C.* *See* **Davidoff, Emery** & **Schoebel.**

Schöler, *E.*, Zur Kenntniss der Nerven der Epidermis der Fische. Bonn, 1885. pl. 8°. 1885.1

Schoeller, *C. H.* Ein neuer Chromis. Blätt. Aquar.-Terrar. Freunde, 1903, 4. Jahrg., 185–187; 203–226. figs. 1903.1

Schönbein, *Christian Friedrich S.* Beobachtungen über die electrischen Wirkungen des Zitteraales. Basel, 1841. 1841.1

—— Observations sur les effets électriques du gymnote. Bibl. Univ. Arch., Genève, 1841, **1,** 445–467. — Notizen (Froriep), **20,** 1–6; 17–26; 39–41. — Proc. London Electr. Soc., 1843, 133–150. 1841.2

—— Ueber die Aeusserung der Elektricität bei dem *Gymnotus electricus.* Neue Notizen (Froriep), 1841, **20,** 1–6; 17–26; 39–41. 1841.3

Schönberg, *Gustav.* Schiffleute- und Visscher-Zunft Basel. Tübingen, 1879. 1879.1

Schöndorf, *Fr.* Das Vorkommen und die stratigraphische Stellung der "humeralis-Schichten" im nordwestdeutschen weissen Jura. 60–61. Jahresber. Nat. Ges. Hannover, 1913. — 5. Jahresber. Niedersächs. Geol. Ver., 23–63. 1913.1

Schöndorff, *Albert.* Ueber den Farbenwechsel bei Forellen; ein Beitrag zur Pigmentfrage. Arch. Naturgesch., 1903, 69. Jahrg., **1,** 399–426. pl. 1903.1

Schöndorff, *Bernhard,* & **Wachholder,** *Kurt.* Ueber den Glykogenstoffwechsel der Fische. I. Der Glykogengehalt von Süsswasserfischen. Arch. Ges. Physiol., 1914, **157,** 147–164. 1914.1

Erheblicher Glykogengehalt. Leber ist schon Aufspeicherungsorgan. Einfluss des Hungers von Beweglichkeit abhängig.

Schoenichen, *W.* Grosses Fischsterben und ihre Ursachen. Prometheus, Berlin, 1904, **16,** 97–101; 113–117; 129–132. 1904.1

Schoenlein, *K.* Beobachtungen über Blutkreislauf und Respiration bei einigen Fischen; nach gemeinschaftlichen Versuchen von V. Willem, nebst einigen Bemerkungen über die Vivisectionstechnik bei Fischen, mitgetheilt von K. Schoenlein. Zeitschr. Biol., 1895, n. s. **13,** 511–547. 14 figs. 1895.1

—— Beobachtungen und Untersuchungen über den Schlag von Torpedo. Zeitschr. Biol., 1895, n. s. **13,** 449–523. 4 pls. 1895.2

—— Ueber die Wirkung des Curare an den elektrischen Organen von *Torpedo occellata* und *marmorata.* Sitzber. Phys. Med. Ges., Würzburg, 1895. 1895.3

Schoenlein, *K.*, & **Willem,** *V.* Beobachtungen über Blutkreislauf und Respiration bei einigen Fischen. Zeitschr. Biol., 1895, 2. ser. **14,** 511–547. figs. 1895.1

—— Observations sur la circulation du sang chez quelques poissons. Bull. Sci. France Belgique, 1895, **26,** 442–468. figs. 1895.2

Schöpf, *Johann David* [1752–1800] Der gemeine Hecht in Amerika [Esox] Naturforscher, 1784, **20,** 26–31. 1784.1

—— Vom nordamerikanischen Pertsch (*Perca flavescens*) Naturforscher, 1784, **20,** 17–25. 1784.2

—— Beschreibung einiger nordamerikanischen Fische vorzüglich aus den neu-yorkischen Gewässern. Schrift. Ges. Naturf. Freunde Berlin, 1788, **8,** 138–194. 1788.1

Schofield, *N. B.* Notes on the planting of salmon and trout fry [n. p. 1899] 23 p. 2 pls. 8° (California State Fish Commission) 1899.1

Schokalsky, *J. M.*, & **Schmidt,** *P. Julius.* Aperçu sur les explorations scientifiques des mers et des eaux douces de l'empire Russe (In Exposition Maritime Intern. Bordeaux, 1907. 70 p. 2 pls.) 1907.1

Scholz, *Edward J. R.* Ueber den Argusfisch (*Scatophagus argus*) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 331–333. pl. 1911.1

—— Zum Laichakt des Gründlings, *Gobio fluviatilis* Flem. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 775–776. fig. 1911.2

Scholz, *F. P.*, & **Endler,** *F. G.* *See* **Endler & Scholz.**

Schomburgk, (*Sir*) *Robert Hermann* [1804–1865] Remarkable habit in a fish. Ann. Mag. Nat. Hist., 1840, **6**, 395–396. 1840.1

Refers to *Vandellia cirrhosa*, or "candiru" of Brazil.

—— The natural history of the fishes of [British] Guiana. 2 vols. Edinburgh, 1841–43. 74 pls. (Jardine's Naturalists' library. vols. xxxii & xxxviii) 1841.1

The same. Second issue. 2 vols. Edinburgh, 1845–46. (Naturalists' library, vols. xxxix & xl)

—— [Extracts from the Journal of the Royal Geographical Society relating to the natural history of the Parima and Guiana rivers] Ann. Mag. Nat. Hist., 1843, **12**, 190–202. 1843.1

Food-fishes of the Barima known as the querrunai and morocotto, p. 192.

—— Reisen in Britisch-Guiana in 1840–1844 . . . Nebst einer Fauna und Flora Guiana's nach Vorlagen von J. Müller, Ehrenberg, Erichson, Klotzsch, Troschel, Cabanis und andern. 3 pts. Leipzig, 1847–48. 8°. 1847.1

I. Fauna. Fische, bearbeitet von J. Müller und F. H. Troschel.

—— Description of some new species of fishes from the sea surrounding the island of Barbados. Ann. Mag. Nat. Hist., 1848, 2. ser. **2**, 11–20. 1848.1

24 species of teleosts are described.

—— The history of Barbados; comprising a geographical description of the island and an account of its geology and natural productions. London, 1848. xx, 722 p. 7 pls. illust. 8°. 1848.2

Contains descriptions of fishes.

Schonberg, *L.* On the spawn of salmon observed in its progressive state. Edinburgh Journ. Sci., 1826, **5**, 238–240. — Notizen (Froriep), **16**, 82–84. 1826.1

Schoondermark, *I. J.* Korte beschouwing van de Middellandsche zee en hare vischfauna. 's Graven Hage, 1873. 8°. 1873.1

Schrader, *Otto* (*editor*) [1855 —] Kulturpflanzen und Hausthiere in ihrem Uebergang aus Asien nach Griechenland und Italien sowie in das übrige Europa . . . Von Victor Hehn. Sechster Auflage, neu herausgegeben [mit einem Vorwort] von O. Schrader. Berlin, 1894. xxvi, 625 p. 8°. 1894.1

Schram, *A.* Essais de pisciculture tentés au jardin botanique de Bruxelles. Bull. Soc. Acclim. Paris, 1864, 2. ser. **1**, 374–375. 1864.1

Schrank, *Franz von Paula von* [1747–1835] Nähere Bestimmung dreier Barsch-Arten. Abh. Privat-Ges. Oberdeutschl., 1792, **1**, 98–103. 1792.1

Schrank, *Franz von Paula von*, & **Wartmann,** *Bernhard.* Ichthyologische Bemerkungen. Schrift. Ges. Naturf. Freunde Berlin, 1780, **1**, 380. *Ibid.*, 1783, **4**, 427–431. 1780.1

1. *Salmo hucho;* 2. *Salmo renke;* 3. *Salmo salvelinus;* 4. Weissfelche; 5. Kroffelche; 6. Sandfelche.

—— Beytrag zur Naturgeschichte des *Salmo alpinus* Linnæi, der Schwarz, renkerischen Bergforelle. Schrift. Ges. Naturf. Freunde Berlin, 1781, **2**, 297–306. 1781.1

Schreber, *D. G.* (*translator*) *See* **Duhamel du Monceau,** *Henri Louis,* 1773.1.

Schreber, *Johann Christian Daniel von* [1739–1810] Lithographia Halensis, sub præsidio Johannis Joachimi Langii. Inaug. Dissert. Halæ, 1758. 4°. 1758.1

Schreiber, —— Schreibers kleiner Atlas der Fische. Esslingen, 1913. 23 p. 12 pls. & map. 8°. 1913.1

Schreiber, *C.* Physikalisch-medizinische Topographie des Physikats-Bezirks Eschwege. Schrift. Beförd. Ges. Naturw. Marburg, 1849, **7**, 117. 1849.1

Treats of the fishes of the Werra.

Schreiber, *Egid* [Die Macropoden als Augenräuber im Aquarium] Zool. Garten, 1878, 19. Jahrg., 60–61. 1878.1

Schreiber, *K.* Resultate einer Aalzucht. Allgem. Fischerei Zeitg., 1896, **21**, 287–288. 1896.1

Schreiner, *A.*, & **Schreiner,** *K. E.* Die Reifungsteilungen bei den Wirbeltieren. Anat. Anz., 1904, **24**, 561–578. 24 figs. 1904.1

—— Ueber die Entwicklung der männlichen Geschlechtszellen von *Myxine glutinosa* L. 1905–08. 1905.1

i. Vermehrungsperiode, Reifungsperiode und Reifungstheilungen. Arch. Biol., Paris, 1905, **21**, 183–314. 8 pls.

ii. Die Centriolen und ihre Vermehrungsweise *Ibid.*, 315–355. 2 pls. & 15 figs.

iii. Zur Spermienbildung der Myxinoiden. Arch. Zellforschung, Leipzig, 1908, **1**, 152–231. 6 pls. & 26 figs.

Schreiner & Schreiner.

—— Neue Studien über die Chromatinreifung der Geschlechtszellen. Die Reifung der männlichen Geschlechtszellen von *Salamandra maculosa* (Laur.) *Spinax niger* (Bonap.) und *Myxine glutinosa* (L.) Arch. Biol., Paris, 1906, **22**, 419–492. 4 pls. 1906.1

Schreiner, *Carlos,* & **Ribeiro,** *Alipio de Miranda.* A collecção de peixes do Museu Nacional do Rio de Janeiro. Arch. Mus. Nac. Rio de Janeiro, 1903, **12**, 67–109. 1903.1

43 species of elasmobranchs, 6 of ganoids and 187 of teleosts are listed.

Schreiner, *K. E.* Zur Histologie des Darmkanals bei *Myxine glutinosa*. Bergens Mus. Aarb. 1898 (1899), no. 1, 1–16. 3 pls. 1899.1

—— Einige Ergebnisse über den Bau und die Entwicklung der Occipitalregion von Amia und Lepidosteus. Zeitschr. Wiss. Zool., 1902, **72**, 467–524. 12 pls. & 20 figs. 1902.1

—— Om Generationsorganet hos *Myxine glutinosa* (L.) Nyt Mag. Naturv., 1904, **42**, 53–55. 1904.1

—— Ueber das Generationsorgan von *Myxine glutinosa* (L.) Biol. Centralbl., 1904, **24**, 91–104; 121–129; 162–173. 1904.2

—— Nogle bemerkninger om hermaphroditismens natur hos myxinoiderne. Nyt Mag. Naturv., 1909, **47**, 5–12. 1909.1

Schreiner, *William H.* Sporting manual. A complete treatise on fishing, fowling and hunting, as applicable to this country; with full instructions for the management of the dog. Philadelphia, 1841. illust. 24°. 1841.1

Schreitmüller, *Wilhelm.* Eine eigenartige Beobachtung bei *Barbus conchonius* Ham. Buch. (= *B. pyrrhopterus;* = indische Prachtbarbe oder rote Barbe) Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 694–695. 2 figs. 1909.1

—— Einiges über Eingewöhnung, Haltung und Pflege des Bachneunauges (*Petromyzon planeri* Bloch) Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 531–533. 2 figs. 1909.2

—— *Geophagus gymnogenys* Hensel. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 749–751. 2 figs. 1909.3

—— Weitere Ansichten über den Zweck der Schaumnester bei Osphromeniden. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 284–286. 1909.4

—— *Abramis brama* L. (Blei, Breitling, Brachsen oder Brassen) und *Blicca björkna* L. (Blicke, Güster, Halbbrachsen, Breitfisch oder Zobelbleizen) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 145–147. 2 figs. 1910.1

—— *Acantophthalmus kuhlii* C. et V. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 197–199. fig. 1910.2

—— *Amiurus nebulosus* Gthr., *Amiurus natalis* Jord., *Callichthys punctatus* d'Orb. und *Macrones vittatus.* Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 49–52. 2 figs. 1910.3

—— *Boleophthalmus pectinirostris* Linné (*Apogryptes pectinirostris* nob. und *Gobius pectinirostris* L.) Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 301–303. 3 figs. 1910.4

—— Der Döbel, Aitel oder Dickkopf, *Squalius cephalus* L., als Aquarienfisch. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 669–670. fig. 1910.5

—— *Fitzroyia lineata* Jenyns (= *Jenynsia lineata* Günther) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 537–538. fig. 1910.6

—— *Haplochilus schoelleri* Boulenger. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 669–670. fig. 1910.7

—— *Hemirhamphus fluviatilis* Bleek. aus Malakka, Singapore, etc. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 17–20. fig. 1910.8

—— *Hemirhamphus fluviatilis* Bleek. und seine Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 513–514. fig. 1910.9

—— Originelle Laichakte und Brutpflege verschiedener Fischarten. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 486–489. 1910.10

—— Platypœcilus spec. (?) Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 177–178. 2 figs. 1910.11

—— Praktische Winke zur Zucht des Makropoden (*Polyacanthus opercularis* Rich.) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 261–263. fig. 1910.12

—— *Rasbora maculata* Duncker. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 357–359. fig. 1910.13

—— Ueber die Giftigkeit der Gymnodonten (Kugelfische) Wochenschr. Aquar.-Terrar. Kunde, 1910, 8. Jahrg., 431–433. 4 figs. 1910.14

—— Ueber das Laichgeschäft des Goldfisches im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 773–774; 810–811. 3 figs. 1910.15

—— Ueber *Platypœcilus maculatus* Günther und Platypœcilus spec. (?) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 573–576. 7 figs. 1910.16

—— Weitere Beobachtungen über das Laichgeschäft des Moderlieschens (*Leucaspius delineatus* v. Sieb.) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 639–640; 655–656; 672–673. fig. 1910.17

—— Zum Schaumnestbau der Osphromeniden. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 103–105. fig. 1910.18

—— *Barbus maculatus* C. et V. (= *Puntius maculatus* Bleek.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 477–479. fig. 1911.1

—— Biologisches von *Petromyzon planeri* Bloch (kleines Bachneunauge) Wochenschr. Aquar. - Terrar. Kunde, 1911, 8. Jahrg., 672–675. 3 figs. 1911.2

—— *Glaridodon latidens* Garman (= *Glaridichthys latidens* Garm.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 589–591. fig. 1911.3

—— *Malapterurus electricus* Lacép. (Elektrischer- oder Zitterwels) Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 446–448. fig. 1911.4

—— Neues über *Boleophthalmus pectinirostris* Linné. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 29–31. 4 figs. 1911.5

—— Nochmals *Hemirhamphus fluviatilis* Bleeker (halbschnäbeliger Hecht) Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 197–198. 2 figs. 1911.6

—— Nochmals *Platypœcilus maculatus* var. *pulchra* Boul. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 529–531. 3 figs. 1911.7

—— *Tetragonopterus œneus* Günther (*Tetragonopterus oaxacanensis* Bocourt) Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 560–562. fig. 1911.8

—— *Tilapia nilotica* L. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 541–543. 2 figs. 1911.9

—— Ueber das Laichgeschäft des *Danio analipunctatus* Boulenger. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 579–581. 1911.10

—— Ueber Laichverhärtung bei *Nuria danrica* Bleeker (Flugbarbe) Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 149–150. fig. 1911.11

—— Weitere Fälle von Xanthorismus und Albinismus bei Fischen. Deutsche Fischereikorresp., 1911, **15**, 228. 1911.12

Nachweis bei Elritze, Barbe, Aal und einigen ausländischen Aquarienfischen.

—— Weiteres über *Danio analipunctatus* Boulenger. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 681. 1911.13

—— Ein Beitrag zur Futterfrage des Aales (*Anguilla vulgaris* Flem.) Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 357–358. fig. 1912.1

—— Ein Beitrag zur Kenntnis des *Pantodon buchholzi* Peters (Schmetterlingsfisch) Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 341–342. 3 figs. 1912.2

—— Biologisches über *Marcusenius longianalis* Boul. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 755–756. fig. 1912.3

—— Eigenartiges Benehmen bei *Rivulus poeyi* Steind., *Rivulus ocellatus* Hens. und *Rivulus elegans* var. *santensis* Steind. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 303–305. 2 figs. 1912.4

—— Einiges über im Aquarium zur Entwickelung gebrachten Laich vom Aland (*Leuciscus idus* L.) Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 149–150. 3 figs. 1912.5

—— *Haplochilus senegalensis* Steind. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 555–556. fig. 1912.6

—— *Haplochromis moffati* Castelnau; ein neuer Maulbrüter aus Afrika. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 724–726. fig. 1912.7

—— Nochmals *Danio analipunctatus* Boul. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 223–224. fig. 1912.8

Schreitmüller, W.

—— *Pyrrhulina filamentosa* Cuv. et Val. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 675–676. fig. 1912.9

—— *Trichogaster labiosus* Ham. Buch. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 62–64. 3 figs. 1912.10

—— Ueber das Laichgeschäft von *Hemigrammus unilineatus* Gill. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 415–417. fig. 1912.11

—— Ueber den Laichakt des *Tetragonopterus ocellifer* Steindachner. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 813–814. fig. 1912.12

—— Ueber die Zucht des *Danio malabaricus* Jerdon. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 707–708. fig. 1912.13

—— Ueber die Zucht des Schleierschwanzes und seiner Verwandten. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 399–401. pl. & fig. 1912.14

—— Ueber die Zucht des Steinbarsches (*Ambloplites rupestris* Rafinesque) im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 265–267. fig. 1912.15

—— Verschiedenes über *Barbus fluviatilis* Ag. (Flussbarbe) im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 177–179. fig. 1912.16

—— *Xenomystus nigri* Boulenger. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 367–369. fig. 1912.17

—— Zucht des Teleskopfisches (*Carassius auratus* var. *macrophthalmus* Dürigen) im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1912, 24. Jahrg., 33–34. pl. & fig. 1912.18

—— *Apomotis cycanellus* Raf. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 289–290. fig. 1913.1

—— *Carassius auratus* var. *macrophthalmus bicaudatus* Zernecke, forma *rubrophthalmus* Schreitmüller. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 497–500. fig. 1913.2

—— *Eleotris marmorata* Bleeker. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 649–651. 3 figs. 1913.3

—— *Epicyrtus microlepis* Reinh. (= *Ræboides microlepis* Reinh.) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 353–354. fig. 1913.4

—— *Pæcilia sphenops* Cuv. et Val. var. (?) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 684–686. 2 figs. 1913.5

—— *Thymallus vulgaris* Nilsson (die Aesche) im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 697–699. fig. 1913.6

—— Die Zucht des amerikanischen Hundsfisches (*Umbra pygmæa* Kay. = *Umbra limi* Kirtl.) im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 603–604. fig. 1913.7

—— Die Zucht des Schlammbeissers (*Misgurnus fossilis* L.) im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 520–532. 2 figs. 1913.8

—— *Anostomus fasciatus* Agassiz. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 113–115. fig. 1914.1

—— *Aspius rapax* Ag. (Rapfen, Rape oder Schied) im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 569–570. fig. 1914.2

—— *Boleophthalmus pectinirostris* Linné und *Boleophthalmus boddaerti* Pallas. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 41–43. 2 figs. 1914.3

—— *Chondrostoma nasus* Linné (Nase oder Näsling) als Aquarienfisch. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 57–58. fig. 1914.4

—— *Periophthalmus schlosseri* Pall. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 496–497. figs. 1914.5

—— *Tetragonopterus mexicanus* Filippi. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 89–91. 2 figs. 1914.6

—— Ueber Farbenveränderung beim "Tigerfisch." Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 537–538. fig. 1914.7

—— Ueber die Zucht und Pflege von *Nuria danrica* Bleeker. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 276–278. fig. 1914.8

—— Ueber die Zucht von *Barbus lateristriga* C. et Val. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 433–437. fig. 1914.9

—— Zur Haltung einheimischer Fische in pflanzenlosen Becken. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 350–351. 1914.10

—— Zur Landwanderung der Aale (= *Anguilla vulgaris* Flem. = *A. vulgaris* L.) Wochenschr. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 87–88. 1914.11

—— Zur Zucht der Laube (Ukelei) *Aspius alburnus* L. *Alburnus lucidus* Heck. im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 259–260. fig. 1914.12

—— Die Alandblecke oder der Schneider (*Alburnus bipunctatus* L.) als Aquarienfisch. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 87–89. 2 figs. 1915.1

—— *Amblyopsis spelæus* Dek., der blinde Höhlenfisch. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 225–227. 2 figs. 1915.2

—— Die Bachforelle (*Salmo fario* L.) im Aquarium. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 241–242. fig. 1915.3

—— *Badis badis* Ham. Buch., seine Zucht und Pflege. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 5–7. fig. 1915.4

—— Beobachtungen bei der Zucht von *Pseudocorynopoma doriæ* Perugia (Kehlkropfsalmler oder Drachenflosser) Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 81–82. fig. 1915.5

—— *Carapus fasciatus* Günther. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 177–178. fig. 1915.6

—— *Clarias lazera* Cuv. & Val. und *Trachycorystes striatulus*. Mit drei Originalaufnahmen nach dem Leben aus dem Zoologischen Garten zu Frankfurt-a.-M. von Aenny Fahr. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 17–19. 3 figs. 1915.7

—— *Eleotris marmorata* Bleeker und *Cryptocoryne griffithi*. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 305. pl. 1915.8

—— Junge Hechte (*Esox lucius* L.) im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 209–211. fig. 1915.9

—— *Lepidosteus tristoechus* Bloch & Schneider (*Lepidosteus osseus* Gmelin, L.) Knochenhecht oder Kaimanfisch. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 49–50. fig. 1915.10

—— *Myletes nigripinnis* Cope. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 194–195. fig. 1915.11

—— Neue Fische im "Zoo" zu Frankfurt a. M. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 130–131. 3 figs. 1915.12

Esox reticulatus, Tetragonopterus spec.

—— *Trutta iridea* Gibb. (*Salmo irideus*) die amerikanische Regenbogenforelle als Aquarienfisch und ihre Pflege. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 231. fig. 1915.13

—— Einiges über *Barbus semifasciolatus* Günther. Blätt. Aquar.-Terrar. Kunde, 1916, 27. Jahrg., p. 70. 1916.1

Schroeder, *E. A.* Fischerei-Wirtschaftslehre des natürlichen Binnengewässer. Dresden, 1889. 8°. — Katechismus der künstlichen Fischzucht und der Teichwirthschaft. Leipzig, 1889. illust. 8°. 1889.1

Schröder, *Olaw,* & **Schuberg,** *August.* *See* **Schuberg** & **Schröder.**

Schröder, *Otto.* Der Kletterfisch (*Anabas scandens*) und seine Zucht, Wochenschr. Aquar.-Terrar. Kunde. 1910, 7. Jahrg., 205. fig. 1910.1

Schröder, *Wilhelm von.* Ueber die Harnstoffbildung der Haifische. Zeitschr. Phys. Chem., 1890, **14**, 576–598. 1890.1

—— *Barbus phytonio*, ein neuer Aquarienfisch. Natur u. Haus, 1906, 15. Jahrg., 65–66. fig. 1906.1

—— Bunocephalus sp. Ein eigenartiger Wels aus Amerika. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 591–592. 1906.2

—— *Haplochilus mattei* Köhler und *Haplochilus panchax* var. Natur u. Haus, 1906, 15. Jahrg., 84–86. fig. 1906.3

—— Eine neue Barbe von den Antillen. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 113–115. fig. 1910.1

Schrön, *Otto.* Ueber zwei noch nicht beschriebene paarige Organe in der Halsgegend von Ammocœtes. Untersuch. Naturlehre (Moleschott), 1865, **9**, 365–366. 1865.1

Schroot, *W.* *Clarias magur*, ein neu eingeführter Wels. Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 225–226; 258–259. pl. 1901.1

—— Ein neuer Girardinus. Blätt. Aquar.-Terrar. Freunde, 1901, **12**, 165–166. 1901.2

Schroot, *W.*

—— Noch etwas über *Girardinus uninotatus.* Blätt. Aquar.-Terrar. Freunde, 1901, 12. Jahrg., 206–207. 1901.3

—— *Geophagus brasiliensis* und *Geophagus gymnogenys* und die Zucht des letzteren im Zimmeraquarium. Natur u. Haus, 1902, 10. Jahrg., 324–328. 1902.1

—— *Mollienisia latipinna,* ein neueingeführter lebendiggebärender Zahnkarpfen. Natur u. Haus, 1903, **11**, 193–195. 4 figs. 1903.1

Schrumpf, *P.* Das Fischfleisch als Nahrungsmittel. Zeitschr. Physik. Diät. Therap., 1911, **15**, 392–401; 470–480. 1911.1

Schubart, *A.* Die Forelle und ihr Fang; naturgeschichtliche und sportliche Monographie. Berlin, 1907. 180 p. pl. & 75 figs. 8°. 1907.1

—— Zur Laichwanderung der Forelle. Kosmos, Stuttgart, 1910, 7. Jahrg., 101–103. 1910.1

—— Der Winterschlaf unserer Südwasserfische. Kosmos, Stuttgart, 1913, 10. Jahrg., 453–456. 1913.1

Schuberg, *August.* Süsswasserpolypen als Forellenfeinde. Allgem. Fischerei Zeitg., 1905. 1905.1

—— Naturschutz und Mückenbekämpfung. Versuche über die Einwirkung zur Vernichtung von Mückenlarven dienender Flüssigkeiten auf Wassertiere und Vögel. Arb. Gesundh.-Amt Berlin, 1914, **47**, 252–290. — Entom. Rundsch., 31. Jahrg., 79–80. 1914.1

Schuberg, *August,* & **Schröder,** *Olaw.* Myxosporidien aus dem Nervensystem und der Haut der Bachforelle. Arch. Protistenkunde, Jena, 1905, **6**, 47–60. pl. 1905.1

Myxobolus neurobius, sp. nov., und *Henneguya nusslina,* sp. nov.

Schubert, *Fr.* Scheibenbarschzucht im Zimmeraquarium. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 145–148. 2 figs. 1914.1

Schubert, *Hugo.* Meine Beobachtungen beim Laichgeschäft der Panzerwelse (*Callichthys punctatus* d'Orb.) Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 546. 1907.1

Schubert, *Otto.* Alte Anschauungen über den Aal. Deutsch. Fischerei Zeitg., 1902, **25**, 375–37 1902.1

Schubert, *Richard J.* [1876 —] Die Fischotolithen des österreich-ungarischen Tertiärs. I. Die Sciæniden. Jahrb. Geol. Reichsanst., Wien, 1902, **51**, 301–315. pl. & 2 figs. 1902.1

—— Die Fischotolithen des österreich-ungarischen Tertiärs. II. Macruriden und Beryciden. Jahrb. Geol. Reichsanst., Wien, 1905, **55**, 613–638. 2 pls. 1905.1

—— Einige Bemerkungen zur Fischfauna der Aemilia. Verh. Geol. Reichsanst., Wien, 1906, 321–323. 1906.1

—— Die Fischotolithen des österreich-ungarischen Tertiärs. III. Beschreibung der übrigen Otolithen des österreich-ungarischen Tertiärs. Jahrb. Geol. Reichsanst., Wien, 1906, **56**, 673–706. 3 pls. & 3 figs. 1906.2

—— Ueber die Fischotolithen des österreich-ungarischen Neogens. Verh. Geol. Reichsanst., Wien, 1906, 124–127. 1906.3

—— Ueber Fischotolithen aus dem sardinischen Miocän. Verh. Geol. Reichsanst., Wien, 1907, 341–343. 1907.1

—— Weitere Fischotolithen aus dem sardinischen Miocän und aus dem Pliocän von Bológna. Verh. Geol. Reichsanst., Wien, 1907, 393–395. 1907.2

—— Das Fischleben der alten Wiener Meere. Urania, Illust. Pop. Wissenschaft. Wochenschr., Wien, 1908, **1**, 101–102. 1908.1

—— Die Fischotolithen des Pausramer Mergels. Zeitschr. Mähr. Landesmus., Brünn, 1908, **8**, 102–120. pl. & fig. 1908.2

—— Die Fischfauna der Schliermergel von Bingia Fargeri (bei Fangario) in Sardinien. Verh. Geol. Reichsanst., Wien, 1912, 160–165. 3 figs. 1912.1

—— Die Fischotolithen der ungarischen Tertiärablagerungen. Mitt. Ungar. Geol. Anst., Budapest, 1912, **20**, 115–139. 20 figs. 1912.2

Schubiger, —— Offizieller Bericht über die schweizerische Fischerei-Ausstellung in Bern, 1895. Schweiz. Fischerei Zeitg., 1896, **4**, 219. Also separate; Pfäffikon-Zürich, 1896. 6 p. 8°. 1895.1

Schuchert, *Charles* [1858 —] Historical geology (In Pirsson, L. V., &

Schuchert, C. A textbook of geology, etc. New York, 1915. x, 1051 p. illust. 8°.) 1915.1

Chap. xxxvii, Fishes and the ancestors of the vertebrates. Devonian fishes, p. 722.

Schücking, *A.* Zur Physiologie der Befruchtung. Zentralbl. Physiol., 1904, **17**, 625–628. 1904.1

Schütz, *F.* Ueber Stickstoffumsatz hungernder Fische. Berlin, 1912. 39 p. 8°. 1912.1

—— Zusammensetzung und Stickstoffumsatz hungernder Schleien. Arch. Anat. Physiol. (*Physiol. Abth.*), 1913, 493–518. 1913.1

Schütz (*junior*), *Rudolf.* Eine Kreuzung zwischen einem *Heros facetus* Weibchen und einem *Geophagus gymnogenys* Männchen. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 323–325. 1912.1

—— Das Laichgeschäft von Heterogramma species. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 688–690. 1912.2

—— *Tilapia zilli* und seine Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 726–727. fig. 1912.3

Schüz, *Emil.* Lebenszähigkeit der Bachforelle. Jahresheft Ver. Vaterl. Naturk. Württemberg, 1866, 22. Jahrg., 128. — Zool. Garten, Frankfurt, **7**, 156–157. 1866.1

Schuk, *Vladimir.* *See* **Zhuk,** *V.*

Schultén, *August Benjamin af.* *Ammodytes tobianus.* Notis. Sällsk. Fauna Flora Fenn. Förh., 1874, **13** (n. s. **10**), 485. 1874.1

Schultheis, *Heinrich.* *Cichlosoma nigrofasciatum.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 559–560. fig. 1909.1

——*Geophagus tæniatus.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 325–326. fig. 1909.2

Schultz, *Alexandre.* Notice sur les pêcheries et la chasse aux phoques dans la mer Blanche, l'océan Glacial et la mer Caspienne. St. Pétersbourg, 1873. 80 p. 8°. 1873.1

One of the publications issued in connection with the "Exposition Universelle de Vienne."

—— Fischerei und Robbenjagd im Weissen Meere und nördlichen Ocean. Jahresber. Ver. Erdkunde, Dresden, 1874, **11**, 105–152. 1874.1

—— Phylogenie der Wirbelthiere. Centralbl. Med. Wiss., 1874, no. 51. 1874.2

—— Die embryonale Anlage der Selachier. Centralbl. Med. Wiss., 1875, 13. Jahrg., 545–547. 1875.1

—— Zur Entwickelungsgeschichte des Selachiereies. Arch. Mikr. Anat., 1875, **11**, 569–582. pl. 1875.2

—— Account of the fisheries and seal-hunting in the White sea, the Arctic ocean and the Caspian sea. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 35–96. 1876.1

—— Beitrag zur Entwickelungsgeschichte der Knorpelfische. Arch. Mikr. Anat., 1877, **13**, 465–478. 1877.1

Schultz, *C.* Die Lösung der Aalrätsel. Stettin, 1911. 1911.1

Schultz, *Günther.* Untersuchungen über Nahrung und Parasiten von Ostseefischen. Wiss. Meeresuntersuch. Kiel (Abt. Kiel), 1911, n. s. **13**, 285–310. pl. 1911.1

Parasiten und Nahrungslisten über Pleuronectes, Hippoglossoides, Rhombus, Gadus, Cyclopterus, Cottus, Agonus, Zoarces, Motella, Centronotus und Merlucius.

Schultze, *Carl August Sigmund* [1795–1877] Nonnulla de primordiis systematis ossium et de evolutione spinæ dorsi in animalibus. Inaug. Dissert. Halæ, 1818. 39 p. 8°. 1818.1

Schultze, *Friedrich.* Uber den Gasgehalt der Schwimmblase einiger Süsswasserfische Deutschlands. Arch. Gesamt. Physiol. (Pflüger), 1872, **5**, 48–52. 1872.1

Schultze, *Hans.* Axencylinder und Ganglienzelle; mikroskopische Studien über die Structur der Nervenfaser und Nervenzelle bei Wirbelthieren [Fische] Arch. Anat. Physiol. (*Anat. Abth.*), 1878, 259–287. pl. 1878.1

Schultze, *Johann.* Blüte und Niedergang der landesherrlichen Teichwirtschaft in der ehemaligen Landgraftschaft Hessen. Arch. Fischerei Geschichte, Berlin, 1914, pt. 2, 1–92. 1914.1

Schultze, *Leonhard Sigismund.* Die Fischerei an der Westküste Süd-Afrikas. Bericht über Untersuchungen an der Deutsch-Sudwest-Afrikanischen Küste und am Kap der Guten Hoffnung [Mit Berücksichtigung sämtlicher Nutzthiergruppen] Abh. Deutsch. Seefischerei Ver., 1907, **9**, 1–57. 12 pls. 1907.1

Schultze, *L. S.*

—— Zoologische und anthropologische Ergebnisse einer Forschungsreise im westlichen und zentralen Südafrika ausgeführt in den Jahren 1903–1905, mit Unterstützung der Kgl. Preussischen Akademie der Wissenschaften zu Berlin von Dr. Leonhard Schultze. 5 vols. Jena, 1908–12. 1908.1

Pisces aquæ dulcis, von P. Pappenheim, vol. iv, p. 269–278. 1910.

Schultze, *Maximilian Johann Sigismund* [1825–1874] Beobachtung junger Exemplare von Amphioxus. Zeitschr. Wiss. Zool., 1851, **3**, 416–419. figs. 1851.1

—— Ueber die Entwickelung von *Petromyzon planeri.* Abh. Naturf. Ges. Halle, 1855, **3**, 22–24. — C. R. Acad. Sci. Paris, 1855, **42**, 336–340. — L'Institut, 1856, **14**, 92. 1855.1

—— Ueber die electrischen Organe der Fische. Sitzber. Naturf. Ges. Halle, 1857, 17–19. — Abh. Naturf. Ges. Halle, 1858, **4**, 297–331. *Ibid.*, 1859, **5**, 13–50. — Arch. Anat. Physiol. Med. (Reichert), 1862, 470–480. — Rev. Mag. Zool., 2. sér. **11**, 220–222. 1857.1

—— Zur Kenntniss des den electrischen Organen verwandten Schwanzorganes von *Raja clavata.* Arch. Anat. Physiol. (Müller), 1858, 193–214. 1858.1

—— Note sur les poissons électriques. C. R. Acad. Sci. Paris, 1859, **48**, 876–878. 1859.1

—— On the electrical organs of fishes. Ann. Mag. Nat. Hist., 1859, 3. ser. **4**, 461–462. 1859.2

—— Recherches sur les poissons électriques. Ann. Sci. Nat. (*Zool.*), 1859, 4. sér. **11**, 376–381. 1859.3

—— Ricerche sui pesci elettrici. Nuovo Cimento, 1860, **11**, 356–357. 1860.1

—— Ueber den feineren Bau der electrischen Organe der Fische. Sitzber. Naturhist. Ver. Preuss. Rheinl. Westphal., 1860, 17. Jahrg., 15–17. 1860.2

—— Ergebnisse einiger die electrischen Organe von Torpedo und das Schwanzorgan von Raja betreffender chemischer Untersuchungen. Journ. Prak. Chem. (Erdmann), 1861, **82**, 1–12. 1861.1

—— Die kolbenförmigen Gebilde in der Haut von Petromyzon und ihr Verhalten im polarisirten Lichte. Arch. Anat. Physiol. Med. (Reichert), 1861, 228–247; 281–303. 1861.2

—— Ueber den *Amphioxus lanceolatus* von den brasilianischen Küsten. Sitzber. Naturhist. Ver. Preuss. Rheinl. Westphal., 1862, 19. Jahrg., 197–198. 1862.1

—— Ueber den Bau der Leuchtorgane der Männchen von *Lampyris splendidula.* Sitzber. Niederrhein. Ges. Nat. Bonn, 1864, 21. Jahrg., 61–67. — Zeitschr. Ges. Naturw., Halle, **24**, 278–279. — Arch. Mikr. Anat., **1**, 124–137. — Ann. Mag. Nat. Hist., 3. ser. **16**, 224. 1864.1

—— Ueber den Bau der Netzhaut im Auge der Neunaugen (*Petromyzon fluviatilis*) Sitzber. Niederrhein. Ges. Nat. Bonn, 1871, 28. Jahrg., 133–134. 1871.1

—— Ueber einige auffallende Eigenthümlichkeiten in der Organisation des Störes, besonders über die Netzhaut des Auges und über die Lymphoiden Drüsen auf der Oberfläche des Herzens. Sitzber. Niederrhein. Ges. Nat. Bonn, 1872, 29. Jahrg., 193–194. 1872.1

Schultze, *O.* Ueber embryonale und bleibende Segmentierung. Anat. Anz. (Verh. Anat. Ges.), 1896, **12**, 87–92. fig. 1896.1

Sklerotomdivertikel bei den Selachiern, p. 87.

—— Ueber die elektrischen Organe der Fische. Verh. Ges. Deutsch. Naturf. Aerzte, 1906, 77. Vers., pt. 2, 399–403. 1906.1

—— Zur Frage von dem feineren Bau der elektrischen Organe der Fische. Biol. Centralbl., 1906, **26**, 640–656. — Festschrift für I. Rosenthal, Teil 1, p. 101–118. Leipzig, 1906. 1906.2

—— Die Kontinuität der Muskelfibrillen und der Sehnenfibrillen. Anat. Anz., 1911, **38** (*Ergänzungsheft*), 65–70. 1911.1

Muskulatur der Rückenflosse von Hippocampus.

Schulz, *Friedrich.* Der Geburtsakt bei *Mollienisia formosa* Girard. Blätt. Aquar.-Terrar. Kunde, 1904, 15. Jahrg., 359–360. 1904.1

Schulz, *Hugo* [1853 —] Ueber den Schwefelgehalt menschlicher und thierischer Gewebe [Hecht und Häring]

Arch. Gesamt. Physiol. (Pflüger), 1893, **54**, 566–567. 1893.1

—— Die älteste in deutscher Sprache geschriebene Naturgeschichte. Mitth. Nat. Ver. Neu-Vorpommern 1896 (1897), 28. Jahrg., xix–xx. 1897.1

Refers to "Das Buch der Natur," by Konrad of Megenberg, written *c.* 1350. The text was edited by F. Pfeiffer in 1861, and a modern German version was published by H. Schulz at Greifswald in 1897. *See also* references under Wasmann, E., 1913.2, *infra.*

Schulz, *Johann.* Auch etwas über die Schmetterlingsfische [Pantodon] Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 475–477. 1911.1

Schulz, *Johann Heinrich.* Fauna Marchica. Die Wirbelthiere der Mark Brandenburg. Berlin, 1845. xxxiv, 584 p. 8°. 1845.1

Fische, p. 485.

Schulz, *W. A.* Ueberblick über die Geschichte der Auffindung von *Lepidosiren paradoxa* Fitz. Verh. Zool.-Bot. Ges. Wien, 1904, **53**, 588–591. 1904.1

Schulze, *Erwin* [1861 —] Fauna piscium Germaniæ. Verzeichniss der Fische der Stromgebiete der Donau, des Rheines, der Ems, Weser, Elbe, Oder, Weichsel, des Pregels und der Memel. Jahresber. Naturw. Ver. Magdeburg, 1889, 137–213. 1889.1

—— Ueber die geographische Verbreitung der Süsswasserfische von Mitteleuropa. Forsch. Deutsch. Land. Volksk., 1890, **5**, 69–84. 1890.1

—— Fauna piscium Germaniæ. Potsdam, 1890. 1890.2

—— The same. 2. ed. Königsberg, 1892. 94 p. illust. 8°. 1892.1

Schulze, *Franz Eilhard* [1840 —] Ueber die Nervenendigung in den sogenannten Schleimcanälen der Fische, und über entsprechende Organe der durch Kiemen athmenden Amphibien. Arch. Anat. Physiol. Med. (Reichert), 1861, 759–769. 1861.1

—— Zur Kenntniss der Endigungsweise des Hörnerven bei Fischen und Amphibien. Arch. Anat. Physiol. Med. (Reichert), 1862, 381–385. 1862.1

—— Ueber die becherförmigen Organe der Fische. Zeitschr. Wiss. Zool., 1863, **12**, 218–222. 1863.1

Endapparate in Schleimhautpapillen, zuerst von Leydig in Süsswasserfischen beobachtet.

—— Ueber die Geschmacksorgane der Fische. Tagebl. 42. Vers. Deutsch. Naturf., 1868, 104. 1868.1

—— Ueber cuticulare Bildungen und Verhornung von Epithelzellen bei den Wirbelthieren. Arch. Mikr. Anat., 1869, **5**, 295–316. 2 pls. 1869.1

—— Ueber die Sinnesorgane der Seitenlinie bei Fischen und Amphibien. Arch. Mikr. Anat., 1870, **6**, 62–88. — Arch. Anat. Physiol., 139–144. — Arch. Zool. Expér., 1870, **1**, i–iv. 1870.1

—— Ueber die Seitenorgane der Fische und Amphibien. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1871, 24. Jahrg., 139–142. 1871.1

—— Ueber eigenthümliche Sinnesorgane der Fische. Mitth. Naturw. Ver. Steiermark, 1873, lxxix–lxxxii. 1873.1

—— Freie Nervenenden in der Epidermis der Knochenfische. Sitzber. Akad. Wiss. Berlin, 1892, 87–88. fig. 1892.1

—— [Ein Stück von einem circa 4 cm. dicken Aal, Kysten von Nematoden enthaltend] Sitzber. Ges. Naturf. Freunde Berlin, 1899, 104. 1899.1

—— Ueber einen bei Warnemünde gestrandeten ungewöhnlich grossen Tunfisch. Sitzber. Ges. Naturf. Freunde Berlin, 1903, 432–435. 1903.1

Schulze, *Louis.* Etwas über die Gruppe (*Cottus gobio* L.) Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 104–105. 1910.1

—— Was ich mit *Cyprinodon variegatus* erlebte. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 457–458; 472–474. fig. 1910.2

—— Aeussere Unterscheidungsmerkmale von *Pœcilia pœcilioides, Girardinus guppyi* und *Pœcilia reticulata* Peters. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 1–2; 17–19. 11 figs. 1911.1

—— *Cyprinodon dispar* (Rüppel) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 281–282. fig. 1911.2

—— *Pseudocorynopoma doriæ,* der Fransenflosser. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 637–639. 3 figs. 1911.3

—— *Heterogramma corumbæ,* ein Fisch für kleine Aquarien. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 369–372. 3 figs. 1912.1

Schulze, *L.*

—— *Polycentrus schomburgki.* Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 579–580. fig. 1912.2

—— *Rasbora daniconius.* Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 221–223. 3 figs. 1912.3

—— *Danio albolineatus.* Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 793–796. 2 figs. 1913.1

—— Der Schlaf der Fische. Kosmos, Stuttgart, 1913, 10. Jahrg., 390–391. 1913.2

—— *Trichogaster labiosus* Day. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 761–763. 2 figs. 1913.3

—— "Fettschicht," "Staubschicht" und "Wasserblüte." Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 665–666. fig. 1914.1

—— Die Ichthyophthiriasis und deren Beseitigung. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 243–245. fig. 1914.2

—— Die "Herbstpest." Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 371. 1915.1

—— Lichtrichtungsempfindlichkeit des *Danio albolineatus.* Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 181–182. 2 figs. 1915.2

—— Wo bleibt der Stichling im Winter? Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 90–91. 1915.3

Schulze, *Theodor.* Zwei Versuche zur Einbürgerung des Karpfens in fliessendem Wasser. Fischerei Zeitg. Neudamm, 1911, **14**, 725–726. 1911.1

Schumacher, *Siegmund von.* Die Rückbildung des Dotterorganes von *Salmo fario.* Sitzber. Akad. Wiss. Wien, 1900, **109**, 3. Abth., 675–699. pl. 1900.1

Schumann, *A. H.* Die Afterflosse von *Tetragonopterus rubropictus,* eine mikroskopische Untersuchung. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 173–174. fig. 1909.1

Schuster, *F.* What do salmon feed on? Fish. Gazette, 1859, **3**, 538. 1859.1

Schuyler, *Eugene.* American diplomacy. New York, 1886. 1886.1

The writer gives in a dozen pages a clear statement of the fisheries question as affected by the treaties of 1783, 1818, 1854 and 1871.

Schvarcz, *Gyula* [1838–1900] La géologie antique et les fragments du Clazoménien, etc. Pesth, 1861. 48 p. 4°. 1861.1

Text in French, Hungarian and Greek.

—— On the failure of geological attempts in Greece prior to the epoch of Alexander. Pt. 1. London, 1862: xx, 75 p. 4°. 1862.1

Translated from the Greek original which appeared in the preceding year. Refers to ancient mention of fossil fishes.

Schwaab, (*Dr.*) —— Lebendes Futter für junge Fische. Circul. Deutsch. Fischerei Ver., 1885, no. 2. 1885.1

—— Live food for young fish. Bull. U. S. Fish Comm. 1885, **5**, 277–280. 1885.2

Schwaeb, *W.* Geographische Naturkunde von Kurhessen. Cassel, 1851. 8°. 1851.1

Descriptions are given of 33 species of fishes.

Schwalbe, *Ernst.* Zur Blutplättchenfrage. Anat. Anz., 1901, **20**, 385–394. 1901.1

—— Die Morphologie der Missbildungen des Menschen und der Tiere. 2 vols. Jena, 1906–07. 1906.1

i. Die allgemeine Missbildungslehre. 1906.
ii. Die Doppelbildungen. 1907.

Schwalbe, *Gustav Albert* [1844–1916] Das Ganglion oculomotorii. Ein Beitrag zur vergleichenden Anatomie der Kopfnerven. Jena. Zeitschr. Naturw., 1879, **13**, 173–268. 1879.1

Fische, p. 180–196.

—— Ueber Theorien der Dentition. Sitzber. Anat. Ges. Strassburg, 1894. 1894.1

Schwandigil, *O. C. F.* Neuronfibrillen in den Retinal-ganglionzellen der Selachier. Ber. Ophthal. Ges. Wiesbaden, 1906. 1906.1

Schwarz, *D.* Untersuchungen des Schwanzendes bei den Embryonen der Wirbeltiere. Nach Beobachtungen an Selachiern, Knochenfischen und Vögeln vergleichend dargestellt. Zeitschr. Wiss. Zool., 1889, **49**, 191–223. 3 pls. 1889.1

Schwarz, *J.* Besteht ein Zusammenhang zwischen der Erblindung der Fische und der Befischung? Fischerei Zeitg. Neudamm, 1911, **14**, 312–314. 1911.1

Beobachtungen über blinde Renken, Seesaiblinge und Maräne im Blindsee (Nordtirol) und blinde Karpfen im Mittersee ebendort. Ebenso das Auftreten von blinden Bachforellen im Seebensee.

—— Einiges über die Renken und deren Fang. Fischerei Zeitg. Neudamm, 1911, **14**, 65–71. 1911.2

Beschreibung des Laichgeschäfts, der Nahrungsaufnahme und der Wanderungen von *Coregonus wartmanni*, *C. fera*, *C. hiemalis*, *C. marœna*, *C. albula* und *C. oxyrhynchus*.

—— Kennt der Fisch sein Wohngewässer? Deutsche Fischereikorrespbl., 1911, **15**, 6; 21. 1911.3

Beobachtungen an *Cyprinus carpio* (Sternberger See) sowie *Leuciscus leuciscus* und *Phoxinus lævis*, *Trutta iridea*, *Grystes salmoides* aus den Seen des Fernpasses.

—— Der Tiefseesaibling. Fischerei Zeitg. Neudamm, 1911, **14**, 856–858. 1911.4

Schwatka, *Frederick.* Nimrod in the north, or hunting and fishing adventures in the arctic regions. New York, 1885. illust. 4°. 1885.1

Describes sport in the region north of Hudson's bay, and in the interior of Alaska.

Schweder, *G.* Ueber die Fischfauna des rigaschen Meerbusens. Korrespbl. Naturf. Ver. Riga, 1893, **36**, 33–35. 1893.1

—— Die Wirbelthiere der baltischen Gouvernements, mit Angabe der in den Sammlungen des Rigaer Naturforscher-Vereins vorhandenen Exemplare. Korrespbl. Naturf. Ver. Riga, 1894, **37**, 1–33. 1894.1

—— Zur Erinnerung an Prof. Dr. Carlos Berg. Korrespbl. Naturf. Ver. Riga, 1902, no. 45, 1–6. 1902.1

—— Die neuesten Ergebnisse der Aalforschung. Korrespbl. Naturf. Ver. Riga, 1908, 145–146. 1908.1

—— Fische der Rigaer Meerbusens. Korrespbl. Naturf. Ver. Riga, 1911, 41–42. 1911.1

Schweizer, *Wilhelm.* Die Felchen des Bodensees und ihre natürliche und künstliche Vermehrung. Frauenfeld, 1894. 14 p. 8°. 1894.1

—— Beobachtungen und Erfahrungen bei der künstlichen Erbrütung von Blaufelchen. Mitth. Thurgau Nat. Ges., 1913, 20. Heft, 154–168. 1913.1

—— Einige neuere Beobachtungen über den Kilchen des Bodensees, *Coregonus acronius* Rapp. Schweiz. Fischerei Zeitg., 1916, 24. Jahrg., 65–68. 2 figs. 1916.1

Schweizerbarth, (*Frau*) —— *von.* Ueber die Einwirkung von Sonnenlicht und Wärme auf das Wachstum von Fischen. Natur u. Haus, 1902, 11 Jahrg., 87–88. 1902.1

Sclater, *A. J. R.* Goldfish breeding. Field & Forest, 1876, **1**, 46–47. 1876.1

—— Goldfish breeding. Sci. Gossip, 1880, **16**, 138–139. 1880.1

Sclater, *Philip Lutley* [1829–1913] For biographical sketch and bibliography of published writings, see Bull. U. S. Nat. Mus., 1896, no. 49.

—— [On scarcity in European collections of specimens of *Lepidosiren paradoxa*] Proc. Zool. Soc. London, 1866, 34–35. 1866.1

—— [Remarks on the arrival in the Society's gardens of four living specimens of the Australian lung-fish, *Ceratodus forsteri*] Proc. Zool. Soc. London, 1898, 492–493. 1898.1

—— Rare living animals in London. Knowledge, London, 1906, **3**, 379–380. fig. 1906.1

Describes specimens of *Ceratodus forsteri.*

Sclemm, *Friedrich,* & **Alton,** *Eduard d'.* Ueber das Nervensystem des Petromyzon. Arch. Anat. Physiol. (Müller), 1838, 262–273. 1838.1

Erklärung der hierzugehörigen Kupfertafel. *Ibid.*, 1840, 5–14.

Scofield, *Norman Bishop.* List of fishes obtained in the waters of arctic Alaska (In Jordan, D. S., & others. The fur-seals and fur-seals islands of the north Pacific ocean, p. 493–509. Rept. Fur-seal Invest., 1896–97, pt. 3. Washington, 1899) 1899.1

Scofield, *Norman Bishop,* & **Gilbert,** *Charles Henry. See* **Gilbert** & **Scofield.**

Scofone, *L.,* & **Buffa,** *E.* Action du sérum du sang de quelques animaux sur les poissons. Recherches expérimentales. Arch. Ital. Biol., Turin, 1900, **33**, 367–372. — Giorn. R. Accad. Med., **63**. 1900.1

Scopoli, *Giovanni Antonio* [1723–1788] J. A. Scopoli . . . Introductio ad historiam naturalem, sistens genera lapidum, plantarum et animalium hactenus detecta, caracteribus essentialibus donata, in tribus divisa, subinde ad leges naturæ. Pragæ, 1787. x, 506 p. 8°. 1787.1

—— Deliciæ floræ et faunæ Insubricæ, seu novæ, aut minus cognitæ species plantarum et animalium quas in Insubria Austriaca tam spontaneas, quam exoticas vidit, descripsit et æri incidi curavit J. A. Scopoli. 3 pts. in 1 vol. Ticini, 1786–88. 75 pls. fol. 1786.1

Scoresby (*junior*), *William.* An account of the arctic regions with a history and description of the northern whale fishery. 2 vols. Edinburgh, 1820. 8°. 1820.1

Fishes, p. 474; 538–541. Description of *Squalus borealis*, p. 538–540.

—— Journal of a voyage [in the "Baffin"] to the northern whale fishery; including researches and discoveries on the eastern coast of west Greenland. Edinburgh, 1823. xliii, 472 p. 8°. 1823.1

Fishes, p. 423.

Scortegagna, *Francesco Orazio.* Descrizione d' un pesce petrificato di singolare grandezza e specie. Vicenza, 1805. 8°. 1805.1

Text in Italian and Latin. This and the following titles by the same author refer to the Upper Eocene fish-fauna of monte Bolca, near Verona.

—— Memoria per servire di schiarimento alla descrizione d' un pesce petrificato scavato in altissimo nelle vicinanze di Bolca. Lettera a Monsieur Faujas de St. Fond. Padova, 1807. 8°. 1807.1

—— De singulare ichthyolitho epistola. Patavia, 1817. fig. 8°. 1817.1

—— Schiarimenti relativamente a quanto fu scritto sopra l' ittiolito esistente nella Biblioteca Bartoliana di Vicenza. Padova, 1824. 8°. 1824.1

—— Al rinomatissimo Sig. L. Agassiz, epistola sommaria contenente nuovi schiarimenti intorno all' ittiolito esistente nella pubblica Biblioteca di Vicenza. Padova, 1841. 20 p. pl. 8°. 1841.1

Scott, *Andrew.* Examination of food in fishes' stomachs. Proc. Trans. Liverpool Biol. Soc., 1896, **10**, 108–114. 1896.1

—— The fish hatchery at Piel. Proc. Trans. Liverpool Biol. Soc., 1901, **15**, 156–161. *Ibid.*, **16**, 109–396. 11 pls. & 5 figs. *Ibid.*, 1902, **17**, 97–102. — Rept. Lancashire Sea-Fisheries Lab., 1901, 14–19; 31–36. pl. *Ibid.*, 1902, 11–16. 1901.1

—— Trawlers and the artificial fertilization of fish ova. Rept. Lancashire Sea-Fisheries Lab. 1902 (1903), 17–20. — Proc. Trans. Liverpool Biol. Soc., 1902, **17**, 103–106. 1902.1

—— Some parasites found on fishes in the Irish sea. Rept. Lancashire Sea-Fisheries Lab. 1903 (1904), 33–45. — Proc. Trans. Liverpool Biol. Soc., 1904, **18**, 113–125. 1903.1

—— On the tow-nettings collected in the Irish sea. Proc. Trans. Liverpool. Biol. Soc., 1905, **19**, 196–215. 1905.1

—— Port Erin tow-nettings. Proc. Trans. Liverpool Biol. Soc., 1905, **19**, 17–18. 1905.2

—— Sea-fish hatching at Piel. Proc. Trans. Liverpool Biol. Soc., 1905, **19**, 189–192. *Ibid.*, 1906, **20**, 158–160. *Ibid.*, 1907, **21**, 129–133. *Ibid.*, 1909, **23**, 111–116. *Ibid.*, 1910, **24**, 71–73. — Rept. Lancashire Sea-Fisheries Lab., 1904, 9–12. *Ibid.*, 1905, 14–15. *Ibid.*, 1906, 29–33. *Ibid.*, 1908, 9–11. 1905.3

—— Report on tow-nettings [from the Irish sea] Proc. Trans. Liverpool Biol. Soc., 1906, **20**, 164–190. 1906.1

—— Faunistic notes. Proc. Trans. Liverpool Biol. Soc., 1907, **21**, 191–198. 5 pls. 1907.1

—— Notes on the food of young fishes. Rept. Lancashire Sea-Fisheries Lab., 1906, 99–103. — Proc. Trans. Liverpool Biol. Soc., 1907, **21**, 199–203. 2 pls. 1907.2

—— Classes, visitors, etc., at Piel. Rept. Lancashire Sea-Fisheries Lab. 1912 (1913), 17–19. 1913.1

—— Fish hatching at Piel. Rept. Lancashire Sea-Fisheries Lab. 1912 (1913), 13–16. — Proc. Trans. Liverpool Biol. Soc., 1913, **27**, 189–192. 1913.2

—— On the pelagic fish eggs collected off the south-west of the Isle of Man. Rept. Lancashire Sea-Fisheries Lab. 1912 (1913), 233–253. — Trans. Liverpool Biol. Soc., 1913, **27**, 409–429. 1913.3

—— The mackerel fishery off Walney in 1913. 22. Rept. Lancashire Sea-Fisheries Lab. 1913 (1914), 19–25. pl. — Trans. Liverpool Biol. Soc., 1914, **28**, 109–115. pl. 1914.1

—— On the pelagic fish eggs collected in 1913. 22. Rept. Lancashire Sea-Fisheries Lab. 1913 (1914), 26–36. Also Trans. Liverpool Biol. Soc., 1914, **28**, 116–126. 1914.2

—— On the pelagic fish-eggs collected off the south-west of the Isle of Man in 1914. Proc. Trans. Liverpool Biol. Soc., 1915, **29**, 274–302. 5 figs. 1915.1

—— On "whitebait" collected in Menai strait. Proc. Trans. Liverpool Biol. Soc., 1915, **29**, 201–205. 1915.2

—— Sea-fish hatching at Piel. Proc. Trans. Liverpool Biol. Soc., 1915, **29**, 72–74. 1915.3

Scott, *Andrew,* & **Herdman,** *W. A.* *See* **Herdman & Scott.**

Scott, *Andrew,* **Johnstone,** *James,* & **Herdman,** *W. A.* *See* **Herdman, Scott & Johnstone.**

Scott, *Genio C.* Fishing in American waters. New York, 1869. 484 p. illust. 8°. 1869.1

Part iv. treats of fish-culture.

—— The same. New edition containing parts six and seven, on southern and miscellaneous fishes. New York, 1875. 539 p. illust. 8°. 1875.1

Scott, *George* [**Oldmixon** *pseudon.*] The grayling of Montana. Forest & Stream, 1875, **4**, 182. 1875.1

Scott, *George G.* Notes on the marine food-fishes of Long Island and a biologic reconnaissance of Cold Spring harbor. Rept. N. Y. State. Mus., 1900, pt. 1, 214–229. 1900.1

—— Further notes on the regeneration of the fins of *Fundulus heteroclitus.* Biol. Bull. Woods Hole, 1907, **12**, 385–400. 1907.1

—— Regeneration and growth in fishes. Abstract in Science, 1909, n. s. **29**, 717. 1909.1

—— Regeneration in Fundulus and its relation to the size of the fish. Biol. Bull. Woods Hole, 1909, **17**, 343–353. 4 figs. & tables. 1909.2

—— Effects of changes in the density of water upon the blood of fishes. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 2, 1143–1150. 1910.1

—— The effect of changes in water density on the blood of fishes. Science, 1911, n. s. **33**, 157. 1911.1

—— The percentage of water in the brain of the dog-fish. Proc. Soc. Exper. Biol. Med., New York, 1912, **9**, 39. 1912.1

—— The effect of fresh water upon *Fundulus heteroclitus.* Science, 1913, n. s. **37**, 269. 1913.1

—— A physiological study of the changes in *Mustelus canis* produced by modifications in the molecular concentration of the external medium. Ann. N. Y. Acad. Sci., 1913, **23**, 1–75. 14 figs. & 20 tables. 1913.2

—— Some effects on Fundulus of changes in the density of the surrounding medium. Biol. Bull. Woods Hole, 1913, **25**, 121–133. 1913.3

—— The percentage of water in the brain of the smooth dog-fish, *Mustelus canis.* Anat. Record, 1914, **8**, 55–64. 1914.1

—— The relation of aquatic animals to the surrounding water. How our blood bears evidence of our ultimate aquatic origin. Scient. Amer. Suppl., 1914, **77**, 342–343. 1914.2

Adaptation of aquatic animals to osmotic pressure of medium.

Scott, *George G.,* & **Denis,** *W.* The relation of osmotic pressure to absorption phenomena in the dog-fish. Amer. Journ. Physiol., 1913, **32**, 1–7. 1913.1

Scott, *George G.,* & **White,** *G. F.* Preliminary note on the permeability to salts of the gill membranes of a fish. Science, 1910, n. s. **32**, 767–768. 1910.1

Scott, *J.* The maskinonge of Muskoka. Forest & Stream, 1875, **3**, 395. 1875.1

Scott, *Robert F.* [1868 —] The voyage of the "Discovery." With illustrations by Dr. E. A. Wilson and other members of the expedition, colored plates in facsimile from Dr. Wilson's sketches, panoramas and maps. 2 vols. New York & London, 1905. 1905.1

Contains observations on fish and fisheries.

Scott, *S. D.,* & **Holt,** *Ernest W. L.* *See* **Holt & Scott.**

Scott, *Thomas.* The marine fishes and invertebrates of Loch Fyne. 15. Ann. Rept. Fishery Board Scotland, 1897, pt. 3, 107–174. 1897.1

—— The fishes of the Firth of Clyde. 18. Ann. Rept. Fishery Board Scotland, 1900, 272–293. 1900.1

—— Notes on some parasites of fishes. 19. Ann. Rept. Fishery Board Scotland, 1902, pt. 3, 137–151. pl. & 12 figs. *Ibid.*, 1903, 20. Ann. Rept., pt. 3, 299–302. pl. & 4 figs. 1902.1

—— Observations on the food of fishes. 20. Ann. Rept. Fishery Board Scotland, 1902, pt. 2, 486–538. 1902.2

Scott, *T.*

—— Some further observations on the food of fishes, with a note on the food observed in the stomach of a common porpoise. 21. Ann. Rept. Fishery Board Scotland, 1903, pt. 3, 218–227. 2 figs. 1903.1

—— On some parasites of fishes new to the Scottish marine fauna. 22. Ann. Rept. Fishery Board Scotland, 1904, pt. 3, 275–280. pl. 1904.1

—— Observations on some parasites of fishes new or rare in Scottish waters. 23. Ann. Rept. Fishery Board Scotland, 1905, pt. 3, 108–119. 2 pls. 1905.1

—— Observations on the otoliths of some teleostean fishes. 24. Ann. Rept. Fishery Board Scotland, 1906, pt. 3, 48–82. 5 pls. 1906.1

—— Some observations on the food of the herring. 25. Ann. Rept. Fishery Board Scotland, 1907, pt. 3, 260–271. 1907.1

—— Notes on some trematode parasites of fishes. 28. Ann. Rept. Fishery Board Scotland, 1911, pt. 3, 68–72. 1911.1

Callicotyle affinis, n. sp., *Octobothrium leptogaster* Leuckart, *Amphiptyches urna* Grube & Wagener on *Chimæra monstrosa* L., and *Axine bellones* Abildg. on *Belone vulgaris.*

—— On the food of the halibut, with notes on the food of Scorpæna, *Phycis blennoides,* the garpike and *Chimæra monstrosa.* 28. Ann. Rept. Fishery Board Scotland, 1911, pt. 3, 24–37. 1911.2

Scott, *Thomas,* & **Brook,** *G. See* **Brook & Scott.**

Scott, *W. R.* On the fisheries of Devonshire. Rept. Trans. Devonshire Assoc. Adv. Sci., 1864, **3**, 60–79. 1864.1

—— On the occurrence of *Orcynus alalonga* on the coast of Devon. Ann. Mag. Nat. Hist., 1865, 3. ser. **16**, 268–270. — Rept. Brit. Assoc. Adv. Sci., 35. meet., 1865 (1866), 93. 1866.1

—— On the Salmonidæ of Devon. Rept. Trans. Devonshire Assoc. Adv. Sci. 1867–68 (1868), **4**, pt. 2, 312–326. 2 pls. 1868.1

—— Salmon passes. Rept. Trans. Devonshire Assoc. Adv. Sci., 1873–74, **6**, 697–702. 2 pls. 1873.1

Scott, *Will.* The regenerated scales of *Fundulus heteroclitus* Linné, with a preliminary note on their formation. Proc. Indiana Acad. Sci., 1911, 439–444. 3 figs. 1911.1

Scott, *William Berryman* [1858 —] Vorläufige Mittheilung über die Entwickelungsgeschichte der Petromyzonten. Zool. Anz., 1880, **3**, 422–426; 443–446. 1880.1

—— Preliminary account of the development of the lampreys. Quart. Journ. Micr. Sci., 1881, n. s. **21**, 146–153. 1881.1

—— Beiträge zur Entwicklungsgeschichte der Petromyzonten. Morphol. Jahrb., 1882, **7**, 101–172. 5 pls. Abstracts in Journ. Roy. Micr. Soc., 2. ser. **1**, 425–428. — Arch. Zool. Expér. Gén., 1882, **9**, xxxiii–xxxiv. 1882.1

—— On the development of the pituitary body in Petromyzon, and the significance of that organ in other types. Science, 1883, **2**, 184–186. figs. 1883.1

—— On the development of the teeth in the lamprey. Science, 1883, **2**, 731–732. fig. 1883.2

—— The embryology of Petromyzon. Journ. Morphol., 1887, **1**, 253–310. 4 pls. Abstract in Journ. Roy. Micr. Soc., 2. ser. **3**, 388–389. 1887.1

—— An introduction to geology. New York, 1897. 816 p. 16 pls. & 311 figs. 1897.1

The same. 2. ed. New York, 1907.

Scott, *William Berryman,* **Speir,** *Francis,* & **Osborn,** *Henry Fairfield. See* **Osborn, Scott & Speir.**

Scott, *William Henry,* pseudonym for **Lawrence,** *John.*

Scovell, *Josiah Thomas,* & **Evermann,** *Barton Warren. See* **Evermann & Scovell.**

Scrope, *W.* Days and nights of salmon fishing in the Tweed, with a short account of the natural history and habits of salmon; instructions to sportsmen, etc. London, 1843. xix, 298 p. illust. 8°. 1843.1

Said by Dean Sage to be "one of the choicest volumes in text, illustration and rarity that adorns angling literature." A second edition was published in 1854.

Scudder, *Charles W.* The reproduction of eels. Scient. Amer., 1878, **39**, 201. 1878.1

—— The ulikon or candle-fish of Alaska. Scient. Amer., 1878, **39**, 266. 1878.2

—— Vitality of German carp, and restoration of some apparently dead. Bull. U. S. Fish Comm. 1884, **4**, 179–180. 1884.1

—— List of publications of the United States commission of fish and fisheries from its establishment in February, 1871, to February, 1896. Rept. U. S. Fish Comm. 1894 (1896), 617–706. 1896.1

Scudder, *Newton P.* The halibut fishery, Davis' strait. Rept. U. S. Fish Comm. 1880 (1883), **8**, 189–228. 1883.1

—— The salt halibut fishery (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 90–119. Washington, 1887) 1887.1

Scudder, *Newton P.*, **Goode,** *George Brown*, & **Collins,** *J. W.* *See* **Goode, Collins & Scudder.**

Scudder, *Samuel Hubbard* [1837 —] Original memoranda of a supplemental list of genera in zoology. Being an appendix to the lists published by Agassiz (1846) and Marschall (1868) and in the Zoological Record (1864–78) etc. Cambridge, 1881. fol. 1881.1

—— Nomenclator zoologicus. An alphabetical list of all generic names that have been employed by naturalists for recent and fossil animals from the earliest times to the close of the year 1879. Bull. U. S. Nat. Mus., 1882, no. 19, 1–716. 1882.1

Includes about 80,000 names of genera, of which about 20,000 are listed in Marschall's Nomenclator, and 33,000 in the similar work by L. Agassiz, published in 1846. See also the nomenclatural indices cited in the present work under the names of F. Poche and C. O. Waterhouse.

—— Catalogue of scientific serials of all countries including the transactions of learned societies in the natural, physical and mathematical sciences, 1633–1876. Cambridge, 1879. 358 p. 8° (Library of Harvard University, special publications, no. 1) 1879.1

Scuderi, *Luca*, & **Cocco,** *Anastasius*. *See* **Cocco & Scuderi.**

Scupin, *E.* Die ichthyologischen Kenntnisse des Aristoteles. Wochenschr. Aquar.-Terrar. Kunde, 1905, 2. Jahrg. 1905.1

—— Die Heringsrassen im Lichte der Pendulationstheorie. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 319–320. 1910.1

Scupin, *H.* Vergleichende Studien über die Histologie der Ganoidschuppen. Arch. Naturgesch., 1896, 62. Jahrg., 145–186. 2 pls. 1896.1

—— Ueber *Nephrotus chorzoviensis* H. v. Meyer. Zeitschr. Deutsch. Geol. Ges., 1903, **55**, 465–474. 2 pls. 1903.1

A ganoid genus allied to Colobodus, from the Muschelkalk of Upper Silesia.

Seabra, *A. F. de.* Sur les corps rouges des teléostéens. Bull. Mus. Hist. Nat. Paris, 1897, **3**, 217–220. 1897.1

—— Sur un cas tératologique observé chez *Atherina presbyter* Cuv. et Val. Bull. Soc. Portug. Sci. Nat., 1907, **1**, 29. 1907.1

—— Description des types d'albinisme existants dans les collections du Muséum de Lisbonne; quelques considérations sur l'origine de la couleur blanche chez les vertébrés. Bull. Soc. Portug. Sci. Nat., 1909, **2**, 256–263. 1909.1

—— Aquario Vasco da Gama. Relatorio de 1910. Lisbõa, 1910. 1910.1

—— Catalogue systématique des vertébrés du Portugal. Poissons. Bull. Soc. Portug. Sci. Nat., 1911, **6**, 1–96. 1911.1

—— Sur quelques espèces remarquables de poissons des côtes du Maroc et du Portugal. Bull. Soc. Portug. Sci. Nat., 1913, **6**, 117–118. 1913.1

Seager, *P. S.* Concise history of the acclimatisation of the Salmonidæ in Tasmania. Proc. Roy. Soc. Tasmania, 1888, 1–26. 1888.1

Seagle, *George A.* The artificial propagation of the rainbow trout. Bull. U. S. Fish Comm. 1896, **16**, 239–256. 7 pls. & 4 figs. 1896.1

—— Some remarks on the rainbow trout, the time for planting, etc. Trans. Amer. Fisheries Soc. 1902 (1903), 138–139. 1903.1

Seal, *William P.* The aqua-vivarium as an aid to biological research. Rept. U. S. Fish Comm. 1883 (1885), **11**, 965–969. 3 pls. 1885.1

—— Aquaria notes. Forest & Stream, 1889, **33**, 207. 1889.1

—— The aquarium; a brief exposition of its principles and management. Bull. U. S. Fish Comm. 1887 (1889), **7**, 274–282. 1889.2

Contains some mention of fish parasites.

Seal, *W. P.*
The keeping of Salmonidæ for purposes of exposition. Bull. U. S. Fish Comm. 1887 (1889), **7**, 283–285. fig. 1889.3

—— Observations on the aquaria of the U. S. Fish Commission at central station, Washington, D. C. Bull. U. S. Fish Comm. 1890 (1892), **10**, 1–12. 4 pls. 1892.1

Goldfish and carp frequently infected by minute infusoria not determined; catfish, sunfish, white perch, trout and others infested in winter by *Chromatophagus parasiticus* (*Ichthyophthirius*) All have yielded to brackish-water treatment. Parasite most persistent and troublesome in freshwater aquaria. Few freshwater fish free from its ravages.

—— Transportation of live fishes. Trans. Amer. Fisheries Soc. 1891 (1892), 55–60. 1892.2

—— The present status of trout culture. Trans. Amer. Fisheries Soc. 1892 (1893), 33–45. 1893.1

—— Fishes and the mosquito problem; their serviceability as mosquito exterminators. Scient. Amer. Suppl., 1908, **65**, 351–352. 1908.1

—— Fishes in their relation to the mosquito problem. Bull. U. S. Fish Comm. 1908 (1910), **28**, pt. 2, 831–838. 1910.1

—— Breeding habits of the viviparous fishes *Gambusia holbrookii* and *Heterandria formosa*. Proc. Biol. Soc. Washington, 1911, **24**, 91–96. pl. 1911.1

—— Suggestions of possible interest to the American Fisheries Society and to fish commissions. Trans. Amer. Fisheries Soc. 1913 (1914), 187–195. 1914.1

Seale, *Alvin* [1873 —] List of freshwater fishes collected in the vicinity of Seattle, Washington, by Edwin C. Starks. Proc. Calif. Acad. Sci., 1895, 2. ser. **5**, 852–854. 1895.1

—— Notes on Deltistes, a new genus of catostomoid fishes. Proc. Calif. Acad. Sci., 1896, 2. ser. **6**, 269. 1896.1

—— New Hawaiian fishes. Occasional Papers Bernice Pauahi Bishop Mus., Honolulu, 1901, **1**, no. 4, 3–15. 7 figs. 1901.1

—— Report of a mission to Guam. Part II. Fishes. Occasional Papers Bernice Pauahi Bishop Mus., Honolulu, 1903, **1**, 61–128. fig. 1903.1

—— Report on the introduction of top-minnows into Hawaiian islands. Hawaiian Forest. Agric., 1905, **2**, pt. 2, 364–367. — Hawaii Agric. Exper. Stat., 1907, Press. Bull. no. 20, 5–8. 1905.1

—— Fishes of the south Pacific. Occasional Papers Bernice Pauahi Bishop Mus., Honolulu, 1906, **4**, 1–89. pl. 1906.1

—— The fishery resources of the Philippine islands. Part I. Commercial fishes. Philippine Journ. Sci., 1908, sec. A, **3**, 513–529. 12 pls. & 5 figs. 1908.1

—— New species of Philippine fishes. Philippine Journ. Sci., 1909, sec. A, **4**, 491–543. 13 pls. 1909.1

—— Descriptions of four new species of fishes from Bantayan island, Philippine archipelago. Philippine Journ. Sci., 1910, sec. D, **5**, 115–118. 2 pls. 1910.1

—— Fishes of Borneo, with descriptions of four new species. Philippine Journ. Sci., 1910, sec. D, **5**, 263–288. 4 pls. 1910.2

—— The successful transference of black bass to the Philippine islands, with notes on the transporting of live fish long distances. Philippine Journ. Sci., 1910, sec. D, **5**, 153–159. pl. & figs. 1910.3

—— The fishery resources of the Philippine islands. Part IV. Miscellaneous marine products. Philippine Journ. Sci., 1911, sec. D, **6**, 283–320. 12 pls. 1911.1

The shark-fin industry, p. 289–291. The preparation of isinglass in the Philippines, p. 309–310. Preparing shark skin, p. 312.

—— Description of a new Acanthyocybium from the Philippine islands. Philippine Journ. Sci., 1912, sec. D, **7**, 283–285. pl. 1912.1

—— Some poisonous Philippine fishes [*Spheroides sceleratus*] Philippine Journ. Sci., 1912, sec. D, **7**, 289–293. pl. 1912.2

—— Fishes of Hong Kong. Journ. Sci. Manila, 1914, **9**, 59–81. 2 pls. 1914.1

Seale, *Alvin*, & **Bean,** *Barton A.* On a collection of fishes from the Philippine islands made by Maj. Edgar. A. Mearns, Surgeon U. S. Army, with descriptions of seven new species. Proc. U. S. Nat. Mus., 1907, **33**, 229–248. 8 figs. 1907.1

Seven new species of teleosts are described.

Seale, *Alvin,* & **Evermann,** *Barton Warren. See* **Evermann & Seale.**

Seale, *Alvin,* & **Jordan,** *David Starr. See* **Jordan & Seale.**

Seale, *Alvin,* & **Smith,** *Hugh M. See* **Smith & Seale.**

Seba, *Albertus* [1665–1736] Locupletissimi rerum naturalium thesauri accurata descriptio, et iconibus artificiosissimus expressio, per universam physices historiam opus, cui ex toto terrarum orbe collegit, digessit, descripsit et depingendum curavit A. Seba. 4 vols. Anstelædami, 1734–65. 450 pls. fol. 1758.1

Latin and French.
The half-title reads: — "Description exacte des principales curiosités naturelles du . . . cabinet d'A. Seba."
Vol. i contains a prefatory Latin epistle by H. Boerhaave, and vol. ii one by J. J. Baier. Vols. iii and iv were edited by H. D. Gaubius, P. Massuet, L. Jancourt and P. van Musschenbroek. The greater part of the descriptions of the fish was written by P. Artedi. The French and Latin indices were compiled by J. B. R. Robinet. A large number of Indian fishes are figured in vol. iii.

—— Planches de Seba, accompagnés d'un texte explicatif mis au courant de la science et redigé par une réunion de savans. Paris [1786?] 1786.1

Sebatier, *A.* De la spermatogenesis chez les poissons selaciens. Mém. Acad. Sci. Montpellier [n. d.] **2**, 53–237.

Sečerov, *Slavko.* Farbenwechselversuche an der Bartgrundel (*Nemachilus barbatula* L.) Arch. Entw.-Mech., Leipzig, 1909, **28**, 629–660. 2 pls. 1909.1

—— Bemerkungen zur chromatischen Funktion der Tiere. Nat. Wochenschr., 1910, **25**, 265–266. 1910.1

—— Ueber die Entstehung der Diplospondylie der Selachier. Arb. Zool. Inst. Univ. Wien, 1911, **19**, pt. 1, 1–28. 2 pls & 5 figs. 1911.1

—— Weitere Farbwechsel- und Hauttransplantationsversuche an der Bartgrundel (*Nemachilus barbatula* L.) Arch. Entw.-Mech., Leipzig, 1912, **33**, 716–722. 3 figs. 1912.1

—— Notizen über den Farbenwechsel von *Nemachilus barbatula* L. Zool. Anz., 1913, **42**, 273–276. 1913.1

Sympathicus-Durchschneidung; Verdunkelung und Wiederherstellung des ursprünglichen Zustandes.

—— Ueber einige Farbenwechselfragen. 3. Ueber den Einfluss der Nahrungsmenge auf den Kontraktionszustand der Melanophoren. Arch. Entw.-Mech., 1914, **40**, 98–103. 2 pls. 1914.1

Keine Retraktion, sondern eher Expansion beim Hungern. Abnahme der Zahl der Melanophoren. Fische.

Secques, *François.* Deux monstres gastéropages adultes de salmonides. Bull. Soc. Zool. France, 1895, **20**, 119–123. figs. 1895.1

Sède de Liéoux, *P. de.* Recherches sur la ligne latérale des poissons osseux. Paris, 1884. 115 p. 4 pls. 8°. Abstract in Amer. Naturalist, 1885, **19**, 612–613. — Rev. Scient., 1885, **34**, 467–470. 1884.1

—— Sur l'appareil vasculaire superficiel des poissons. C. R. Acad. Sci. Paris, 1886, **102**, 1183–1184. 1886.1

Sedelnikov, *A.* Ueber das Auffinden von *Cottus sibiricus* Kessl. in dem Flusse Irtysch bei Omsk [Text in Russian] Zap. Zap.-Sib. Otd. Russ. Geógr. Obšč., Omsk, 1904, **31**, 1–2. 1904.1

Sederholm, *J. J.* Forntidens djurwärld med särskild hansyn till ryggradsdjuren enligt Osborn, Scott, Lucas, Abel, etc., skildrad av J. J. Sederholm. Borgå, 1916. ii, 176 p. 137 figs. 1916.1

A popular treatise on palæontology, containing a number of figures of fossil fishes, *i. e., Zebrasoma deani* and Coccosteus, etc.

Sedgwick, *Adam* (*geologist*) [1786–1873] On some beds associated with the magnesian limestone, and on some fossil fish found in them. Proc. Geol. Soc. London, 1826, **1**, 2–3. 1826.1

Sedgwick, *Adam* (*zoologist*) [1854–1913] For biographical notice, *see* Nature, 1913, **91**, 14–15.

—— The vertebrate excretory system. Quart. Journ. Micr. Sci., 1881, **21**, 443. 1881.1

—— (*translator*) Elementary textbook of zoology . . . Translated and edited by A. Sedgwick [from the German of C. F. W. Claus] 2 vols. London, 1884–85. 8°. 1885.1

Vol. ii. Mollusca to Vertebrata.

—— Notes on elasmobranch development. Quart. Journ. Micr. Sci., 1892, n. s. **33**, 559–586. pl. Abstract in Amer. Naturalist, 1893, **26**, 1044–1046. 1893.1

Sedgwick, *A.*

—— On the inadequacy of the cellular theory of development, and on the early development of nerves, particularly of the third nerve and of the sympathetic in Elasmobranchii. Quart. Journ. Micr. Sci., 1895, n. s. **37**, 87–101. 1895.1

—— A student's text book of zoology. 3 vols. London, 1898–1909. illust. 8°. 1898.1

Vol. ii. Amphioxus and Vertebrata.

—— Embryology [article on] Encycl. Britannica, 1910, 11. ed. vol. ix, 314–329. 1910.1

Incidental mention of embryological development of fishes.

Seed, *William.* Fish-culture in New Zealand. Bull. U. S. Fish Comm. 1886 (1887), **6**, 213–216. 1887.1

Seeley, *Harry Govier* [1839–1909] Fishes (In Duncan, M. Cassell's Natural history, pt. 5. London, 1883. 8°) 1883.1

—— The freshwater fishes of Europe; a history of their genera, species, structure, habits and distribution. London, 1886. 444 p. pl. & 211 figs. 1886.1

—— On *Ceratodus kannemeyeri* (Seeley) Geol. Mag., 1897, 2. dec. **4**, 543–544. fig. 1897.1

Seelig, *F. W.* Etwas vom Aal. Abh. Ver. Naturk. Kassel, 1897, **61**, 47–50. 1897.1

—— Ueber künstliche Fischzucht. Abh. Ver. Naturk. Kassel, 1897, 38–46. 1897.2

Seelig, *Georg.* Ueber künstliche Fischzucht. Landw. Zeitschr. & Anz. Regsbez. Cassel, 1877, 375–378. 1877.1

——• L. Baldners Vogel- Fisch- und Thierbuch, 1666. Bayer. Fischerei-Zeitg., 1885, 10. Jahrg., 180–184. 1885.1

See also the modern reprint of Baldner's werk by R. Lauterborn, published in 1903.
See also Reiber, F., 1887.1, *supra.*

Seelinger, *Oswald* [1858–1908] Tierleben der Tiefsee. Leipzig, 1901. 49 p. pl. 8°. 1901.1

Review by C. C. Nutting in Science, 1901, **14**, n. s. 998–1001.

Seemann, —— Die Fütterung junger Forellen im Winter, etc. Landw. Centralbl., 1861. 1861.1

Seetzen, *Ulrich Jasper* [1767–1811] Verzeichniss der Fische in den Gewässern der Herrschaft Jever. Zoolog. Ann. (Meyer) Weimar, 1794, **1**, 309. 1794.1

—— Beyträge zur Naturgeschichte der Herrschaft Jever in Westphalen. Neue Schrift. Ges. Naturf. Freunde Berlin, 1795, **1**, 153. 1795.1

Verzeichniss der Fische.

Segerstråle, *Eva.* Zur Kenntnis der Teleostierleber. Anat. Hefte, Wiesbaden, 1910, **41**, pt. 1, 77–104. 18 figs. 1910.1

Segesser, *A. Ph. von.* Jagd und Fischerei im 14. und 15. Jahrhundert. Luzern, 1852. 2 p. 8°. 1852.1

Segond, *L. A.* Des affinités squelettiques des poissons. Journ. Anat. Physiol. Paris, 1873, **9**, 511–534; 607–625. pl. 1873.1

Under the caption of "Remarques historiques," p. 512–524, is comprised a résumé of the progress of ichthyology in modern times, based largely on the historical summaries of H. Cloquet, Cuvier and Valenciennes, and A. Duméril.

Segre, *Rosetta.* Ricerche intorno alla variazione della *Tinca vulgaris.* Boll. Mus. Zool. Torino, 1902, **17**, no. 429, 1–42. 1902.1

—— Pesci del Cadore. Res italicæ. Boll. Mus. Zool. Anat. Comp. Univ. Torino, 1904, **19**, no. 472, 1–18. 1904.1

Seguenza, *Luigi.* I vertebrati fossili della provincia di Messina. Boll. Soc. Geol. Ital., 1900, **19**, 443–520. 2 pls. 1900.1

Three new species are described of Hybodus and two of Sphenodus. Contains bibliography of 150 titles.
Review in Rivist. Ital. Paleont. **7**, pt. 1.

—— I pesci fossili della provincia di Reggio (Calabria) citati dal Prof. G. Seguenza. Boll. Soc. Geol. Ital., Roma, 1901, **20**, 254–262. 1901.1

Seidlitz, *Georg.* Ueber Lachs-Schon-Reviere in den oberländischen Seen. Ber. Fischerei Ver. Prov. Preussen, 1877, no. 3, 4–7. 1877.1

—— Ueber die Lebensweise des Aals. Ber. Fischerei Ver. Prov. Ost- u. Westpreussen, 1878, **5**, 8–12. 1878.1

—— Ueber den Ostsee-Schnäpel (*Coregonus lavaretus*) Berichte Fischerei Ver. Prov. Ost- u. Westpreussen, 1879, no. 6, 3–5. — Circul. Deutsch. Fischerei Ver., 1879, no. 1, 13–16. 1879.1

—— Fauna baltica. Die Fische der Ostseeprovinzen. Arch. Naturk. Liv.-

Est.- und Kurlands, 1882, 2. ser. **8**, 1–138. 1882.1

Seifert, *Hugo.* La pesca de salmones; procedimientos usuales. Boletin Bosques, Pesca i Caza, Santiago, 1912, **1**, 628–638. 1912.1

Seignette, ——, & **Leroy,** *J. B.* *See* **Leroy** & **Seignette.**

Seignette, ——, **Walsh,** *J.*, & **Le Roy,** *J. B.* *See* **Le Roy, Walsh** & **Seignette.**

Seiler, *D. W.* Worms in trout. Forest & Stream, 1879, **12**, 236. 1879.1

Seitz, *A.* Das Fliegen der Fische. Zool. Jahrb. (*Syst. Abth.*), 1890, **5**, 361–372. 1890.1

—— Noch ein Wort über das Fliegen der Fische. Zool. Anz., 1891, **14**, 455–457. 1891.1

—— Vergleichende Studien über die Faunen von China und Japan. Mitth. Deutsch. Ges. Natur- & Völkerk. Ostasiens, Yokohama, 1892, **5**, 361–368. 1892.1

Selaputin, *G.* Zur Kenntnis des Skelets der Siluriden. Der Schädel von Clarias [Text in Russian] Trd. Sravnit-Anat. Inst. Univ. Moskva, 1907, 1–38. — Zap. Univ. Moskva, **22.** 1907.1

Selby, *Prideaux John* [1788–1867] Notice of the *Lutjanus rupestris* of Bloch. Zool. Bot. Mag., 1837, **1**, 167–170. 1837.1

Seldon, *G. Henry.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 461. 1879.1

Selenka, (*Frau*) *M. Lenore* (*editor*) Die Pithecanthropus-Schichten auf Java. Leipzig, 1911. xlii, 268 p. 30 pls. 4°. 1911.1

Die Fischreste, von F. Hennig.

Selfridge, *Thomas Oliver.* Reports of explorations and surveys to ascertain the practicability of a ship canal between the Atlantic and Pacific oceans by the way of the isthmus of Darien. Washington, 1874. 268 p. 14 pls. 1874.1

Zoological notes, by G. A. Maack, p. 155–175.

Seligmann, *C. G.* Supernumerary dorsal fin in a trout. Trans. Path. Soc. London, 1898, **49**, 388–393. fig. 1898.1

Seligo, *Arthur.* Die deutschen Süsswasserfische und ihre Lebensverhältnisse (In Zacharias, O. Die Tier- und Pflanzenwelt des Süsswassers, Bd. ii, no. 4. Leipzig, 1891. illust. 8°) 1891.1

—— Verbildung von Eierstöcken bei Karpfen. Allgem. Fischerei Zeitg., 1891, **20.** 1891.2

—— Die Fischerei in Westpreussen. VI. Die Pommerellischen Küstenflüsse. Mitth. Westpreussischen Fischerei Ver., 1893, **5**, 31–34; 70–73. 1893.1

—— Beobachtungen über den Weichsellachs. Mitth. Westpreussischen Fischerei Ver., 1894, **6**, 21–35. 1894.1

—— Zur Vermehrung des Ostseeschnäpels (*Coregonus lavaretus*) im Kurischen Haff. Mitth. Sect. Küsten Hochseefisch., 1894, 107–111. 1894.2

—— Ein Schmarotzer der Karausche. Mitth. Westpreussischen Fischerei Ver., 1895, **7**, 86–87. 2 figs. 1895.1

—— Anweisung zur Wartung eines Fisch-Bruthauses. Mitth. Westpreussischen Fischerei Ver., 1896, **8**, 23–36. 1896.1

—— Die deutsche Ostseefischerei. Mitth. Deutsch. Seefischerei Ver., 1896, **12**, 195–207. 1896.2

—— Der Weichsellachs. Mitth. Westpreussischen Fischerei Ver., 1896, **8**, 49–60. fig. 1896.3

—— Om fisket på Preussiska Sjöplatån. Fiskeritidskr. Finl., 1897, **6**, 173–181. 1897.1

—— Zur Wasserpestfrage. Allgem. Fischerei Zeitg., 1897, **22**, 366–369; 388–391. 1897.2

—— Biologische Mittheilungen über den Stichling. Schrift. Naturf. Ges. Danzig, 1901, n. s. **10**, 53–56. 1901.1

—— Ein bunter Aal. Mitth. Westpreussischen Fischerei Ver., 1901, **13**, 6. 1901.2

—— Die Fischgewässer der Provinz Westpreussen in kurzer Darstellung bearbeitet. Danzig, 1902. vi, 193 p. 8°. 1902.1

—— Abschnitte aus der Lebensgeschichte des Aals. Schrift. Naturf. Ges. Danzig, 1904, n. s. **11**, 135–138. 1904.1

Seligo, *A.*

—— Ueber den Weitsee und andere Seen Westpreussens. Schrift. Naturf. Ges. Danzig, 1904, n. s. **11**, 92–93. 1904.2

—— Der Aal. Deutsch. Fischerei Zeitg. (Wochenbl)., 1906, **29**, 692–693; 719–721. 1906.1

—— Grundsätze fur die Besetzung von Seen mit Fischen. Mitt. Westpr. Fisch.-Ver., 1908. 16 p. 8°. 1908.1

—— Hydrobiologische Untersuchungen. IV. Das Wachstum der kleinen Maräne. Mitth. Westpreussischen Fischerei Ver., 1908, **20**, 20–51. 2 pls. 1908.2

Seliuzko, —— Die Welse und ihr Verhalten im Aquarium [Text in Russian] Zurn. Obsc. Liub. Komn. Rast., St. Petersb., 1908, **15**, 69–78; 104–119; 162–171. 1908.1

Sella, *M.* Contributo alla conoscenza della riproduzione e dello sviluppo del pesce spada, *Xiphias gladius* L. Mem. R. Comitat. Talassogr. Ital., Venezia, 1911, **2**, 1–16. pl. 1911.1

—— Sullo sviluppo dello scheletro assiale nei murenoidi. Rendic. Accad. Lincei, Roma, 1911, 5. ser., **20**, pt. 1, 513–517. 4 figs. — Mem. R. Comitat. Talassogr. Ital., Venezia, 1911, **3**, 1–92. 3 pls. 1911.2

—— Alcuni appunti sulla pesca del pesce nella Libia. Mem. R. Comitat. Talassogr. Ital., Venezia, 1912, **18**, 1–29. pl. 1912.1

Sellars, *L. H.* Abundance of fish in the gulf of Mexico. Bull. U. S. Fish Comm., 1884, **4**, 304. 1884.1

Sellheim, *H.* Ueber die Fischerei in dem Lemsal'schen Seen. Balt. Wochenschr., Jurjev, 1909, 309–312. 1909.1

Sellier, *J.* Recherches sur la digestion des poissons. Univ. Bordeaux, Soc. Sci. Stat. Zool. d'Arcachon, 1899, **4**, 93–102. 1899.1

—— De l'action favorisante du suc intestinal sur la digestion pancréatique des matières albuminoides chez les poissons cartilagineux. Trav. Stat. Zool., Arcachon, 1902. — C. R. Mém. Soc. Biol. Paris, 1902, **54**, 1405–1407. 1902.1

—— Sur la lipase du sang chez quelques groupes de poissons et d'animaux invertébrés. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 195–196. 1902.2

—— Sur le ferment saponifiant du sérum sanguin chez quelques groupes de poissons et d'animaux invertébrés. C. R. Assoc. Franç. Avanc. Sci., 31. sess., 1902, **31**, pt. 1. 1902.3

—— Sur le pouvoir amylolytique du sang des poissons et des crustacés. Univ. Bordeaux, Soc. Sci. d'Arcachon Stat. Biol., 1903, **7**, 29–31. — C. R. Mém. Soc. Biol. Paris, 1904, **56**, 261–263. 1904.1

—— Action antiprotéolytique du sérum sanguin des animaux inférieurs (poissons et quelques types d'invertébrés) C. R. Mém. Soc. Biol. Paris, 1905, **57**, pt. 2, 628–630. 1905.1

—— Sur le pouvoir antiprésurant du sérum sanguin des animaux inférieurs (poissons et invertébrés) C. R. Acad. Sci. Paris, 1906, **143**, 409–410. 1906.1

Sellig, *F. W.* Ueber künstliche Fischzucht. Abh. Ver. Naturk. Kassel, 1897. **61**, 38–46. 1897.1

Sellin, *W.* Schmarotzer des Aales. Arch. Ver. Freunde Naturgesch. Mecklenberg, 1878, 31. Jahrg., 111–112. 1878.1

Selous, *Edmund.* The romance of the animal world. London, 1911. 330 p. illust. 8°. 1911.1

Chapters xi, xxii and xxiii describe the habits of certain fishes.

Selys-Longchamps, (*Baron*) *Michel Edmond de* [1813–1900] Faune belge. Première partie. Indication méthodique des mammifères, oiseaux, reptiles et poissons, observés jusqu'ici en Belgique. Liège, 1842. xii, 310 p. 9 pls. 8°. 1842.1

—— Sur la pêche fluviale en Belgique. Bull. Acad. Roy. Belgique, 1866, 2. sér. **22**, 579–610. 1866.1

—— Sur la production des anguilles. Bull. Acad. Roy. Belgique, 1873, 2. sér. **36**, 757–758. 1873.1

—— Repeuplement des cours d'eau en Belgique. Bull. Soc. Acclim. Paris, 1883, 3. sér. **10**, 143–156. 1883.1

—— Révision des poissons d'eau douce de la faune belge. Bull. Acad. Sci. Belgique, 1887, 3. sér. **14**, 1021–1098. 1887.1

Selys-Longchamps, *Marc.* Gastrulation et formation des feuillets chez

Petromyzon. Ann. Soc. Zool. Malacol. Belgique, 1910, **44**, 7–21. — Arch. Biol. Liège, **25**, 1–75. 3 pls. 1910.1

Semenov, *N. V.* Der Häringsfang an der Westküste des kaspischen Meeres [Text in Russian] Congr. Intern. Pêche Piscicult. St. Pétersb., 1902, pt. 2, 13–28. 1902.1

Semichon, *L.* Observations sur l'ovaire de *Protopterus annectens* Owen. Bull. Mus. Hist. Nat., Paris, 1913, 7–9. 1913.1

Semmens, *J. M.* The protection of fish and game. Journ. Dept. Agric. Victoria, 1910, **8**, 595–597. 1910.1

Semmer, *Arthur. Geophagus gymnogenys* und seine Zucht. Natur u. Haus, 1902, 10. Jahrg. 244–246. 1902.1

Semon, *Richard Wolfgang* [1859 —] Notizen über den Zusammenhang der Harn- und Geschlechtsorgane bei den Ganoiden. Morphol. Jahrb., 1891, **17**, 623–635. pl. 1891.1

—— Zoologische Forschungsreisen in Australien und dem malayischen Archipel, ausgeführt in den Jahren 1891–93. Denkschr. Med.-Naturw. Ges. Jena, 1893, **4**, 50 p. 8 pls. Also published as a separate work, Jena. 1893.1

1. Lieferung. Ceratodus, mit einem Vorwort von E. Haeckel.

—— Vermeintliche "aüssere" Kiemen bei Ceratodus-Embryonen. Anat. Anz., 1894, **10**, 332–333. 1894.1

—— Entstehung und Bedeutung der embryonalen Hüllen und Anhangsorgane der Wirbelthiere [Fische] C. R. 3. Congr. Intern. Zool., Leyde, 1896, 289–316. 1896.1

—— Im australischen Busch und an den Küsten des Korallenmeeres. Leipzig, 1896. 552 p. illust. 8°. 1896.2

—— Das Excretionssystem der Myxinoiden. Anat. Anz., 1897, **13**, 127–137. 1897.1

—— Vorniere und Urniere. Anat. Anz., 1897, **13**, 260–264. 1897.2

—— Die Entwickelung der paarigen Flossen des *Ceratodus forsteri* (In Zoologische Forschungsreisen in Australien und dem malayischen Archipel, ausgeführt in den Jahren 1891–1893, etc., Bd. i, pt. 2, p. 59–111. 6 pls. Jena, 1898) 1898.1

—— In the Australian bush and on the coast of the coral sea. London, 1899. 552 p. illust. 8°. 1899.1

Contains notes on fishes.

—— Ueber die Entwickelung der Zahngebilde der Dipnoer. Sitzber. Ges. Morphol. Physiol., München, 1899, **15**, 75–85. 4 figs. 1899.2

—— Weitere Beiträge zur Physiologie der Dipnoer-Flossen, auf Grund neuer, von Mr. Arthur Thomson an gefangenen Exemplaren von Ceratodus angestellten Beobachtungen. Zool. Anz., 1899, **22**, 294–300. fig. 1899.3

—— Zur vergleichenden Anatomie der Gelenkbildungen bei den Wirbeltieren (In Festschrift zum siebenzigsten Geburtstag von Carl von Kupffer, p. 353–364. pl. & figs. Jena, 1899) 1899.4

—— Die "ektodermale Mediannaht" des Ceratodus. Arch. Entw.-Mech., Leipzig, 1901, **11**, 310–320. 9 figs. 1901.1

—— Die Furchung und Entwickelung der Keimblätter bei *Ceratodus forsteri* (In Zoologische Forschungsreisen in Australien und dem malayischen Archipel, ausgeführt in den Jahren 1891–93, etc., Bd. i, pt. 3, p. 301–332. 4 pls. Jena, 1901) 1901.2

—— Normentafel zur Entwicklungsgeschichte des *Ceratodus forsteri* (In Normentafeln zur Entwicklungsgeschichte der Wirbelthiere, herausgegeben von F. Keibel, etc. 3. Abth. 38 p. 3 pls. Jena, 1901) 1901.3

—— Ueber das Verwandtschaftsverhältniss der Dipnoer und Amphibien. Zool. Anz., 1901, **24**, 180–188. 1901.4

—— Die Zahnentwickelung des *Ceratodus forsteri* (In Zoologische Forschungsreisen in Australien und dem malayischen Archipel, ausgeführt in den Jahren 1891–93, etc. Bd. i, pt. 3, p. 113–135. 3 pls. & 12 figs. Jena, 1901) 1901.5

—— Zur Entwicklungsgeschichte des Urogenitalsystems der Dipnoer. Zool. Anz., 1901, **24**, 131–135. 1901.6

—— Einige neue ambonesische Raritäten. Rumphius Gedenkboek Kolon. Mus. Haarlem, 1902, 94–97. fig. 1902.1

Some fishes are included.

—— Im australischen Busch und an den Küsten des Korallenmeeres. 2. Auflage. Leipzig, 1903. 565 p. illust. 8°. 1903.1

Semon, *R. W.*
—— Beobachtungen über den australischen Lungenfisch im Freileben und in der Gefangenschaft. Blätt. Aquar.-Terrar. Kunde, 1908, **19**, 245–250. 1908.1

Semon, *Richard Wolfgang,* & **Spengel,** *J. W.* Das Exkretionssystem der Myxinoiden in seiner Bedeutung für die morphologische Auffassung des Urogenitalsystems der Wirbelthiere (In Festschrift zum siebenzigsten Geburtstage von Carl Gegenbaur, Bd. iii, p. 167–192. 2 pls. Leipzig, 1896) — Anat. Anz., 1897, **13**, 127–137. 1897.1

Semper, *Carl Gottfried* [1832–1893] Segmentalorgane bei erwachsenen Haien. Centralbl. Med. Wiss., 1874, 12. Jahrg., 817–819. 1874.1

—— Bildung und Wachstum der Keimdrüsen bei den Plagiostomen. Centralbl. Med. Wiss. 1875, 13. Jahrg., 177–182. 1875.1

—— Segmental organs in adult Selachia. Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 95–96. 1875.2

—— Das Urogenitalsystem der Plagiostomen und seine Bedeutung für das der übrigen Wirbelthiere. Arbeit. Zool. Inst. Würzburg, 1875, **2**, 195–509. pls. 1875.3

—— The natural conditions of existence as they affect animal life. London, 1881. 8°. 1881.1

—— The same. 3. ed. London, 1883. xvi, 472 p. illust. 8° (The International scientific series) 1883.1

Sendler, *Arthur.* Gewitter und Fischsterben. Allgem. Fischerei Zeitg., 1902, **27**, 435–436. 1902.1

Senior, *Harold Dickinson* [1870 —] The conus arteriosus in *Tarpon atlanticus* (Cuvier et Valenciennes) Biol. Bull. Woods Hole, 1907, **12**, 146–151. 3 figs. 1907.1

—— Note on the conus arteriosus of *Megalops cyprinoides* (Broussonet) Biol. Bull. Woods Hole, 1907, **12**, 378–379. 2 figs. 1907.2

—— Teleosts with a conus arteriosus having more than one row of valves. Anat. Record, 1907, **1**, 83–84. 1907.3

—— The development of the heart in shad (*Alosa sapidissima* Wilson) with a note on the classification of teleostean embryos from a morphological standpoint. Amer. Journ. Anat., 1909, **9**, 211–262. 27 figs. 1909.1

Senior, *William.* Pike and perch. With chapters by John Bickerdyke and W. H. Pope. London, 1900. ix, 279 p. illust. 8°. 1900.1

Senna, *Angelo.* Una nuova cattura di *Selache maxima* (Gunn.) nel mar toscano. Monit. Zool. Ital., 1913, **24**, 229–232. 1913.1

—— Pesci raccolti nella Somalia meridionale dai dottorri Stefanini e Paoli. Monit. Zool. Ital., 1915, 26. anno, 176–182. 1915.1

Sennebogen, *E.* Sulla malattia delle anguille. Neptunia, Venezia, 1902, **18**, 39–41. 1902.1

Seno, *Hidemi,* & **Aoki,** *Takeo.* Tai shi-iku shiken hōkoku [Report on the feeding experiment on *Pagrus major* and *P. cardinalis* in captivity] Suisan Kōshyujo Shiken Hōkoku, Tokyo, 1910, **6**, no. 3, 81–108. 1910.1

Senoner, *Adolf* [1806–1895] Beiträge zur Kenntniss der Fischfauna des adriatischen Meeres. Zool. Garten, 1868, 9. Jahrg., 136–142; 243–246. 1868.1

—— Verbreitung des Gurami (*Osphromenus olfax* Com.) Zool. Garten, 1870, 11. Jahrg., 295–297. 1870.1

—— Notizen über die Fischerei in den italienischen Gewässern. Zool. Garten, 1880, 21. Jahrg., 373–374. *Ibid.*, 1881, 22. Jahrg., 79–85. 1880.1

Seques, *François. See* **Secques,** *F.*

Séré, *E. de.* Sur un nouvel appareil destiné à servir d'abri aux poissons et désigné sous le nom d'aquarisère. C. R. Acad. Sci. Paris, 1867, **65**, 806–807. 1867.1

—— Rapport sur l'établissement d'Huningue et les services qu'il rend à l'acclimatation. Bull. Soc. Acclim. Paris, 1868, 2. sér. **5**, 275–290. 1868.1

Serlachius, *G. A.* Berättelse öfver inplantering af siklöja i Kertejärvi sjö i Kuorehvesi socken. Fiskeritidskr. Finl., 1898, **7**, 97. 1898.1

Sernander, *Rutger.* Einige Vertebratenfunde aus schwedischen Torfmooren. Bull. Geol. Inst. Upsala 1900–01 (1902), **5**, 223–233. 1902.1
Perca fluviatilis L. and *Leuciscus rutilus* L.

Serpe, *Giuliano.* Indice delle produzioni naturali della terra, non che organico-marine petrefatte a conchiglia, le quali si ritrovano raccolte, e metodicamente disposte appresso l' autore. Vicenza, 1788. 1788.1

Serrane, *F.* Le brochet (*Esox lucius*) Bruxelles, 1908. 251 p. 206 figs. 8°. 1908.1

Serre, *Paul.* La destruction des phoques et les pêcheries de saumons en Californie. Bull. Soc. Zool. France, 1899, **24**, 166–169. 1899.1

—— Notes de zoologie américaine. Bull. Soc. Zool. France, 1899, **24**, 197–203. 1899.2

Fisheries and fish-cultural activities of the United States.

—— Notes de zoologie recueillies en Californie. Bull. Soc. Acclim. Paris, 1901, **48**, 92–93. 1901.1

Chimæroids and swordfishes.

Serres, *Antoine Etienne Renaud Augustin* [1786–1868] Anatomie comparée du cerveau, dans les quatre classes des animaux vertébrés, appliquée à la physiologie et à la pathologie du système nerveux. 2 vols. & atlas. Paris, 1824–27. 8° & 4°. 1824.1

Serres, *Pierre Marcel Toussaint de* [1780–1862] Des causes des migrations des animaux, et particulièrement des oiseaux et des poissons. Haarlem, 1842. iv, 322 p. 4°. 1842.1

—— Note sur un vomer garni de cinq rangées de dents des terrains de la Craie chloritée ou à Hippurites. Ann. Sci. Nat. (*Zool.*), 1855, 4. sér. **4**, 264–266. pl. 1855.1

Dentition of *Pycnodus rugulosus* Ag.

—— Observations sur la duplicité monstrueuse, faites à l'occasion de la communication de M. de Quatrefages. C. R. Acad. Sci. Paris, 1855, **40**, 629–632; 876–878. 1855.2

—— De la découverte du genre Notæus dans les terrains aneuthalassiques d'Armissan près de Narbonne (Aude) C. R. Acad. Sci. Paris, 1858, **46**, 751–754. 1858.1

Occurrence of *Notæus laticaudatus* held to indicate homotaxial equivalence with gypsum of Montmartre.

—— Des coprolithes des terrains tertiaires éocènes des environs d'Issel (Aude) C. R. Acad. Sci. Paris, 1860, **50**, 1086–1089. 1860.1

—— Recherches sur quelques points de l'organisation du *Lepidosiren* [*Protopterus*] *annectens;* description du cerveau (première note) C. R. Acad. Sci. Paris, 1863, **57**, 540–547; 577–580. — Rev. Mag. Zool., 1863, **15**, 371–374. 1863.1

Service, *Robert* [— 1911] Freshwater fishes of the Solway area. Ann. Scottish Nat. Hist., 1892, 18–25. 1892.1

—— Sting ray (*Trygon pastinaca*) in the Solway firth. Ann. Scottish Nat. Hist., 1896, 124. 1896.1

—— The vertebrates of Solway; a century's changes. Trans. Journ. Proc. Dumfries Galloway Nat. Hist. Antiq. Soc., 1902, **17**, 15–31. 1902.1

—— From a Solway notebook. Ann. Scottish Nat. Hist., 1904, **14**, 65–71. 1904.1

—— Maigre (*Sciæna squilla*) in the Solway. Ann. Scottish Nat. Hist., 1906, 54. 1906.1

—— Red mullet (*Mullus barbatus*) in the Solway. Ann. Scottish Nat. Hist., 1906, 54. 1906.2

—— Seasonal movements of fishes in the Solway area. Trans. Journ. Proc. Dumfriessh. Galloway Nat. Hist. Antiq. Soc., 1907, **18**, 149–152. 1907.1

Seurat, *L. G.* Sur la faune des lacs et lagunes du valle de Mexico. Bull. Mus. Hist. Nat. Paris, 1898, 23–27. 1898.1

Sevastianov, *A.* Description de l'*Acarauna longirostris,* nouveau genre de poisson appartenant à l'ordre des thoraciques. Nova Acta Acad. Sci. Petropol. 1796 (1802), **13**, 357. fig. 1802.1

—— Description du *Sparus ornatus,* n. sp. Nova Acta Acad. Sci. Petropol. 1797–98 (1805), **14**, 521–526. 1805.1

Severtsoff or **Sewertzoff,** *A. N.* *See* **Severtzov,** *A. N.*

Severtzov, *Aleksyei Nikolaevich.* Jevotnie Turkestaskie [Fauna of Turkestan] Nachr. Ges. Naturk. Moscou, 1873, **8**, pt. 2. 1873.1

—— Erforschung des Thian-Schan Gebirgsystem [Fische] Petermann's Mittheil., 1875. Ergänzungsheft 43. Notice in Album Natuur. 1876, 128. 1875.1

Severtzov, *A. N.*

—— Die Entwickelung der Occipital-Region der niederen Vertebraten, in Zusammenhang mit der Frage über die Metamerie des Kopfes. Bull. Soc. Nat. Moscou, 1895, 186–284. 2 pls. 1895.1

—— Beitrag zur Entwickelungsgeschichte des Wirbeltierschädels. Vorläufige Mitteilung. Anat. Anz., 1897, **13**, 409–425. figs. 1897.1

Die Metamerie des Kopfes von Torpedo. Vorläufige Mittheilung. Anat. Anz., 1898, **14**, 278–282. 1898.1

—— Studien zur Entwickelungsgeschichte des Wirbelthierkopfes. I. Die Metamerie des Kopfes des electrischen Rochens. Bull. Soc. Nat. Moscou, 1898, 197–263; 279–284. 4 pls. 1898.2

—— Die Entwickelung des Selachierschädels. Ein Beitrag zur Theorie der korrelativen Entwickelung (In Festschrift zum siebenzigsten Geburtstage Carl von Kupffer, p. 281–320. 3 pls. & 4 figs. Leipzig, 1899) 1899.1

—— Studien zur Entwickelungsgeschichte des Wirbelthierkopfes. I. Die Metamerie des Kopfes des electrischen Rochen. Fortsetzung. Bull. Soc. Nat. Moscou, 1899, 2. sér. **12**, 393–445. 4 pls. 1899.2

—— Zur Entwickelungsgeschichte des *Ceratodus forsteri*. Vorläufige Mitteilung. Anat. Anz., 1902, **21**, 593–608. figs. 1902.1

—— Die Kiemenbogennerven der Fische. Anat. Anz., 1911, **38**, 487–494. 4 figs. 1911.1

Untersuchungen der Kiemenbogennerven von *Acipenser ruthenus, Scyllium catulus, Acanthias vulgaris, Raja clavata* und *Trygon pastinaca*.

—— Das Visceralskelet der Cyclostomen. Anat. Anz., 1914, **45**, 280–283. 1914.1

On homologies with gnathostomes.

Sewall, *Henry.* On the equilibrium function of the membranous labyrinth in cartilaginous fishes. Johns Hopkins Univ. Circ., 1882, **1**, 163. 1882.1

—— Experiments upon the ears of fishes with reference to the function of equilibrium. Journ. Physiol., 1884, **4**, 339–349. 1884.1

Sewall, *Henry,* & **Kühne,** *W.* *See* **Kühne & Sewall.**

Seward, *Albert Charles,* & **Woodward,** *Arthur Smith.* Permo-Carboniferous plants and vertebrates from Kashmir. Palæont. Indica, 1905, n. s. **2**, Mem. no. 2, 1–13. 3 pls. 1905.1

See also references under Woodward, A. S., 1905.2 and 1908.3, *infra*.

Sewastianoff, *A. See* **Sevastianov,** *A.*

Sewell, *R. B. Seymour. See* **Seymour-Sewell,** *R. B.*

Sewertzoff or **Sewertzow,** *Alexis Nikolayevich. See* **Severtzov,** *A. N.*

Seymour, *Charles.* Fish-culture in southern China. Bull. U. S. Fish Comm. 1885, **5**, 252–254. 1885.1

Seymour-Sewell, *R. B.* Notes on the deep-sea fish obtained by the R. I. M. S. S. "Investigator," during the survey season 1910–11. Rec. Indian Mus., Calcutta, 1912, **7**, no. 1, 1–14. 1912.1

—— Notes on the biological work of the R. I. M. S. S. "Investigator" during survey seasons, 1910–11 and 1911–12. Journ. Proc. Asiat. Soc. Bengal, 1913, **9**, 329–390. 1913.1

—— Notes on Indian fish. Rec. Indian Mus., Calcutta, 1914, **10**, 131–135. pl. 1914.1

Seymour-Sewell, *R. B.*, & **Chaudhuri,** *Banawari Lal.* Indian fish of proved utility as mosquito-destroyers. Calcutta, 1912. 24 p. 8°. 1912.1

Seymour-Sewell, *R. B.*, & **Southwell,** *Thomas.* Notes on the fish-fauna of certain tanks in Bengal. Bull. Depart. Agric. Beh. Ors. Rauchi, 1913, no. 1. 1913.1

Sgarzi, *Gaetano.* Analisi comparativa di alcuni pezzi spettanti allo scheletro osseo delle tre classi di vertebrati: mammiferi, rettili, pesci, e di alcune produzioni integumentali di certe specie spettanti a ciascuna delle nominate classi. Nov. Comment. Bologna, 1849, **10**, 501–522. 1849.1

Shafer, *George D.* The mosaic of the single and twin cones in the retina of *Micropterus salmoides*. Arch. Entw.-Mech., Leipzig, 1900, **10**, 685–691. pl. Abstracts in Proc. Amer. Assoc. Adv. Sci., 49. meet., 1900, 241–242. — Science, 1900, n. s. **12**, 307–309. 1900.1

Shafer, *George D.*, & **Eigenmann,** *Carl H. See* **Eigenmann & Shafer.**

Shaler, *Nathaniel Southgate,* & **Woodworth,** *Jay Backus.* Geology of the Richmond basin, Va. 19. Ann. Rept. U. S. Geol. Surv. 1897–98 (1899), pt. 2, 431–434. pls. & figs. 1899.1

Contains description of Triassic fish-beds of the Virginia coalfield.

Shanks, *William F. G.* Fish-culture in America. Harper's New Month. Mag., 1868, **37**, 721–739. 1868.1

Shann, *Edward W.* Some notes on the life-history and rate of growth in *Gobius minutus*. Ann. Mag. Nat. Hist., 1910, 8. ser. **5**, 217–239. 2 pls. 1910.1

—— A description of the advanced embryonic stage of *Lamna cornubica*. 28. Ann. Rept. Fishery Board Scotland, 1911, pt. 3, 73–79. pl. 1911.1

—— An account of the anatomy and homology of the adipose lobe of the pelvic fin of the salmon. Quart. Journ. Micr. Sci., 1913, **58**, 703–732. pl. & figs. 1913.1

—— On the nature of the lateral muscle in Teleostei. Proc. Zool. Soc. London, 1914, 319–337. 3 figs. 1914.1

Sharp, *Benjamin* [1858 —] The food of the cod. Abstract in Proc. Acad. Nat. Sci. Philad., 1901, **53**, 2. 1901.1

Sharp, *Benjamin*, & **Fowler,** *Henry Weed*. The fishes of Nantucket. Proc. Acad. Nat. Sci. Philad., 1904, **56**, 504–512. 1904.1

Sharp, *David* [1840 —] What is *Trichiurus lepturus* Hay? Scottish Naturalist, 1873–74, **2**, 156. 1873.1

—— (*editor*) The zoological record for 1893 [–1914] Vol. xxviii [–li] 1893.1

The first six volumes of the Record were edited by Albert Günther, and the sections on Pisces for the volumes for 1886–1910 inclusive were contributed by G. A. Boulenger. In the annual volumes from 1911 onward the record for Pisces was compiled by C. T. Regan.

—— (*editor*) Index zoologicus. An alphabetical list of names of genera and subgenera proposed for use in zoology as recorded in the "Zoological Record" 1880–1900 . . . compiled by Charles Owen Waterhouse. London, 1902. 421 p. 8°. 1902.1

The index comprises about 40,000 names. The number in Scudder's "Nomenclator" is estimated to be about 80,000.

—— (*editor*) Index zoologicus no. ii. An alphabetical list of names of genera and subgenera . . . compiled by Charles Owen Waterhouse. London, 1912. iv, 324 p. 8°. 1912.1

About 22,000 names are included in this volume, making a total of about 140,000 which have been proposed for the genera and subgenera of zoological taxonomy.

Sharp, *Katherine D.* The story of Dinichthys. Amer. Inventor, 1903, **10**, 263. 1903.1

Sharpe, *W.* Fish from the clouds. Zoologist, 1875, 2. ser. **10**, 4704–4705. 1875.1

Shattuck, *Lemuel*. A history of the town of Concord, Middlesex county, Massachusetts, from its earliest settlement to 1832, etc. Boston, 1835. 392 p. 8°. 1835.1

On planting fish in Walden pond, p. 200.

Shavrov, *N.* Ueber die Bedeutung des Austretens des Araxes für das kaukasische Fischereigewerbe und die Massnahmen zu seiner besten Ausnützung [Text in Russian] Vĕst. Rybopromyšl., St. Petersb., 1909, **24**, 118–160, 189–204. 1909.1

Shaw, *B. F.* Inflammation of the eye in trout. Chicago Field, 1879, **9**, 221. 1879.1

Shaw, *Frederick G.* The complete science of fly fishing and spinning. Neville Court, 1914. xiii, 432 p. 1914.1

Shaw *George* [1751–1813] Description of the *Stylephorus chordatus*, a new fish. Trans. Linn. Soc. London, 1791, **1**, 90–92. pl. 1791.1

—— General zoology or systematic natural history, . . . with plates from the first authorities and most select specimens. 14 vols. London, 1800–26. 8°. 1800.1

The ichthyological portion is contained in the fourth and fifth volumes.

"This part is a compilation, based on the system of Linné as modified by Gmelin in the restoration of the Amphibia nantes to the fishes. The illustrations are almost entirely copied from the works of Bloch and Lacépède. Twelve hundred and thirty nominal species were described.

"The generic diagnoses, it may be added, were copied (sometimes with very slight modifications) by Dr. S. L. Mitchill in his memoir 'The fishes of New York, described and arranged,' in the Trans. Lit. Phil. Soc. New York." — T. N. Gill, Smithson. Misc. Coll., 1872, **11**, 41.

Shaw, *George*, & **Nodder,** *F. P.* The naturalist's miscellany, or colored figures of natural objects; drawn and described . . . from nature. 24 vols. London, 1790–1813. illust. 4°. 1790.1

There is a second title, which reads: "Vivarium Naturæ," etc. This work was succeeded by "The Zoological Miscellany" of Leach and Nodder. For the dates of publication of the various parts, see note by C. D. Sherborn, in Ann. Mag. Nat. Hist., 1895, 6. ser. **15**, 375. A collation of the work is also published by J. A. Allen in Bull. Amer. Mus. Nat. Hist., 1912, **31**, 11.

Shaw, *John.* An account of some experiments and observations on the parr and the ova of the salmon, proving the parr to be the young of the salmon. Edinburgh New Phil. Journ., 1836, **21**, 99–110. — Notizen (Froriep), **50**, 177–184. — Isis (Oken), 1838, 120–126. 1836.1

—— Experiments on the development and growth of the fry of the salmon from the exclusion of the ovum to the age of seven months. Edinburgh New Phil. Journ., 1838, **24**, 165–176. Abstracts in Neue Notizen (Froriep), **6**, 1–7. — Ann. Nat. Hist., **1**, 75. — Proc. Roy. Soc. Edinburgh, 178–179. *Ibid.*, **2**, 275–279. 1838.1

—— Account of experimental observations on the development and growth of salmon-fry from the exclusion of the ova to the age of two years. Trans. Roy. Soc. Edinburgh, 1840, **14**, 547–566. Abstracts in Neue Notizen (Froriep), **14**, 97–101. — Ann. Nat. Hist., **4**, 352. 1840.1

—— On the growth and migrations of the sea-trout of the Solway (*Salmo trutta*) Trans. Roy. Soc. Edinburgh, 1843, **15**, 369–375. — Ann. Mag. Nat. Hist., **11**, 384. 1843.1

—— Experimental observations on development and growth of salmon-fry. Edinburgh, 1850. 4°. 1850.1

Shaw-Lefevre, *George.* Principles of fishery legislation. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **4**, pt. 3. 1883.1

Shea, (*Sir*) *Ambrose.* Newfoundland: its fisheries and general resources. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **5**, pt. 5. 1883.1

Shearer, *Cresswell.* On the nerve terminations in the selachian cornea. Journ. Comp. Neurol., 1898, **8**, 209–217. 4 figs. 1898.1

Shears, *E. E.* Carp in the Hudson river. Bull. U. S. Fish Comm. 1881 (1882), **1**, 54. 1882.1

Shebley, *W. H.* Rearing and feeding salmon fry in California. Trans. Pacific Fisheries Soc. 1914 (1915), 85–90. 1915.1

Sheldon, *Ralph Edward.* An analysis of the olfactory paths and centers in fishes. Anat. Record., Philad., 1908, **2**, 108–109. 1908.1

—— The participation of medullated fibers in the innervation of the olfactory mucous membrane of fishes. Science, 1908, n. s. **37**, 915–916. 1908.2

—— The nervus terminalis in the carp. Journ. Comp. Neurol., 1909, **19**, 191–201. 7 figs. 1909.1

—— The phylogeny of the facial nerve and chorda tympani. Anat. Record, Philad., 1909, **3**, 593–617. 6 figs. 1909.2

—— Reactions of the dogfish to chemical stimuli. Journ. Comp. Neurol., 1909, **19**, 273–301. 3 figs. Abstract in Science, n. s. **29**, 714. 1909.3

—— Sense of smell in selachians [Scyllium] Journ. Exper. Zool., 1911, **10**, 51–62. Abstract in Science, n. s. **33**, 389–390. 1911.1

—— The olfactory tracts and centers in teleosts. Journ. Comp. Neurol., 1912, **22**, 177–253. 42 pls. 1912.1

Sheldon, *Ralph Edward,* & **Brookover,** *C.* The nervus terminalis in teleosts. Anat. Record, Philad., 1909, **3**, 257–259. 1909.1

Sheldon, *Ralph Edward,* & **Parker,** *George Howard. See* **Parker & Sheldon.**

Sheley, *G. A.* Destruction of fish caused by nets of small mesh in lake Michigan. Bull. U. S. Fish Comm. 1884, **4**, 353. 1884.1

Shelford, *Victor E.* Ecological succession. I. Stream fishes and the method of physiographic analysis. Biol. Bull. Woods Hole, 1911, **21**, 9–35. 4 figs. 1911.1

—— Ecological succession. II. Pond fishes. Biol. Bull. Woods Hole, 1911, **21**, 127–151. 5 figs. 1911.2

—— Ecological succession. III. A reconnaissance of its causes in ponds with particular reference to fish. Biol. Bull. Woods Hole, 1912, **22**, 1–38. 1912.1

—— An experimental comparative study of the behavior of the animals of two aquatic animal communities. Science, 1914, n. s. **39**, 366. 1914.1

Rapids community positive to strong current and negative to sand bottom. Pool community positive to sand bottom.

—— An experimental study of the behavior agreement among the animals of an animal community. Biol. Bull.

Woods Hole, 1914, **26**, 294–315. 41 figs. 1914.2

Rapids community and pool community. Reactions as to current, to bottom, to stones, to light. Rapids community litho-rheotactic.

—— The reaction of herring and other salt-water fishes to decomposition products normal to sea-water. Science, 1915, n. s. **41**, 475. 1915.1

Very sensitive to HS and O_2. Selection of neutrality, as sensitive as litmus.

Shelford, *Victor E.*, & **Allee,** *W. C.* An index of fish environments. Science, 1912, n. s. **36**, 76–77. 1912.1

—— The reactions of fishes to gradients of dissolved atmospheric gases. Journ. Exper. Zool., 1913, **14**, 207–266. 7 figs. 1913.1

—— Rapid modification of the behavior of fishes by contact with modified water. Journ. Animal Behav., 1914, **4**, 1–30. 4 figs. 1914.1

Quick sensing of solutes. Increased sensibility after repeated stimulation not to be confused with associative memory.

Shelford, *Victor E.*, & **Powers,** *Edwin B.* An experimental study of the movements of herring and other marine fishes. Biol. Bull. Woods Hole, 1915, **28**, 315–334. 2 figs. 1915.1

Detection of minimal variations in water (temperature, chemistry) Desertion of localities because of contamination of sea.

Shepard, *Joseph.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 479. 1879.1

Shephard, *Isaac F.* Fish-culture in China. Bull. U. S. Fish Comm. 1885, **5**, 250–251. 1885.1

Shepherd, *C. E.* The "asteriscus" in fishes. Zoologist, 1910, 4. ser. **14**, 57–62. pl. & figs. 1910.1

—— Comparisons of otoliths found in fishes. Zoologist, 1910, 4. ser. **14**, 292–298. 2 pls. 1910.2

—— Pharyngeal teeth of fishes. Zoologist, 1910, 4. ser. **14**, 418–425. pl. & 2 figs. *Ibid.*, 1911, **15**, 132–141; 450–456. pl. & 11 figs. *Ibid.*, 1912, **16**, 201–209; 450–459. 8 figs. *Ibid.*, Zoologist, 1913, 4. ser. **17**, 138–146; 382–389. 7 figs. *Ibid.*, 1914, 4. ser. **18**, 262–272. 3 figs. 1913.1

—— On the location of the sacculus and its contained otoliths in fishes. Zoologist, 1914, 4. ser. **18**, 103–109; 131–146. 3 figs. 1914.1

Sherborn, *Charles Davies* [1861 —] The life of Richard Owen. By R. Owen . . . with the scientific portions revised by C. D. Sherborn, etc. 2 vols. London, 1894. 8°. 1894.1

—— Note on the dates of "The zoology of the Beagle." Ann. Mag. Nat. Hist., 1897, 6. ser. **20**, 483. 1897.1

—— On the dates of the natural history portion of Savigny's "Description de l'Egypte." Proc. Zool. Soc. London, 1897, 285–288. 1897.2

—— An index to the generic and trivial names of animals described in the 10th and 12th editions of the Systema Naturæ of Linnæus. Handbooks Manchester Museum, Owens Coll., Publ. 25, 1899. 108 p. 8°. 1899.1

—— Lichtenstein's "Catalogus rerum naturalium." Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 272. 1899.2

—— A note on the date of "Humboldt and Bonpland's voyage: Observations de zoologie." Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 428. 1899.3

—— Index animalium, sive index nominum quæ ab A. D. 1758, generibus et speciebus animalium imposita sunt. Sectio prima, Jan. 1758 usque ad finem Dec. 1800. Cambridge & New York, 1902. 1195 p. 8°. 1902.1

Reviews in Science, 1902, n. s. **17**, 1003–1005; Ann. Mag. Nat. Hist., 7. ser. **12**, 638.
An exhaustive and carefully prepared index of animal names, representing a vast amount of research and of utmost value to systematists. Its continuation is in progress.

Sherborn, *Charles Davies*, & **Jentink,** *F. A.* On the dates of publication of von Siebold's Fauna japonica, etc. Proc. Zool. Soc. London, 1895, 149–150. 1895.1

Sherborn, *Charles Davies*, & **Palmer,** *T. S.* Dates of Charles d'Orbigny's "Dictionnaire universel d'histoire naturelle," 1839–1849. Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 350. 1899.1

Sherborn, *Charles Davies*, & **Woodward,** *Arthur Smith.* *See* **Woodward** & **Sherborn.**

Sherborn, *Charles Davies*, & **Woodward,** *B. B.* *See* **Woodward** & **Sherborn.**

Sherlock, *R. L.* On a marine band in middle Coal Measures, South Lancashire. Geol. Mag., 1915, 6. ser. **2**, 311–312. 1915.1

Sherrill, *Cecilia Adelaide.* Bibliography of the Adirondacks. 4. Ann. Rept. Comm. Fish. Game Forests N. Y. 1898 (1899), 423–441. 1899.1

Sherrin, *R. A. A.* Handbook of the fishes of New Zealand. Auckland, 1886. 311 p. 4°. 1886.1

Sherwood, *George Herbert* [1876—] Tilefishing in fifty fathoms. Amer. Mus. Journ., 1916, **16**, 433–442. figs. 1916.1

Sherwood, *George H.*, & **Edwards,** *Vinal N.* Notes on the migration, spawning, abundance, etc. of certain fishes in 1900 [Woods Hole, Mass.] Bull. U. S. Fish Comm. 1901 (1902), **21**, 27–31. 1902.1

Shiel, *J. B.* Observations on the salmon fisheries of Ulster, urging their claims to legislative protection. London, 1842. 8°. 1842.1

Shields, *G. O.* (*editor*) [**Coquina** pseudon.] American game fishes, their habits, habitat and peculiarities. Chicago and New York, 1892. 580 p. illust. 8°. 1892.1

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Shields (*junior*), *Samuel A.* A large saw-fish (Pristis) Amer. Naturalist, 1879, **13**, 262. 1879.1

Shipley, *Arthur Everett* [1861—] On the development of the nervous system in *Petromyzon fluviatilis* [Preliminary note] Proc. Cambridge Phil. Soc., 1886, **5**, 374–375. 1886.1

—— On the formation of the mesoblast and the persistence of the blastopore in the lamprey. Proc. Roy. Soc. London, 1886, **39**, 244–248. Abstract in Journ. Roy. Micr. Soc., 2. ser. **6**, pt. 1, 212. 1886.2

—— On some points in the development of *Petromyzon fluviatilis.* Quart. Journ. Micr. Sci., 1887, n. s. **27**, 325–370. 4 pls. 1887.1

—— Biographical sketch of John Samuel Budgett (In The work of John Samuel Budgett, p. 1–55. Cambridge, 1907) 1907.1

Shipley, *Arthur E.*, & **MacBride,** *E. W.* Zoology; an elementary text-book. Cambridge, 1901. 632 p. illust. 8°. 1901.1

Shipley, *William.* A true treatise on the art of fly fishing, trolling, etc., as practised on the Dove and on the principal streams of the Midland counties. Applicable to every trout and grayling river in the empire. Edited by Edward Fitzgibbon. London, 1838. xxxv, 264 p. illust. 8°. 1838.1

Shore, *Theodore W.* On the minute anatomy of the vagus nerve in selachians with remarks on the segmental value of the cranial nerves. Journ. Anat. Physiol., 1889, 2. ser. **3**, 428–451. 2 pls. 1889.1

Shorey, *Marian L.* Indications regarding differentiation from tissue culture experiments. Science, 1912, n. s. **35**, 936–937. 1912.1

Short, *A. Rendle.* A description of some Rhætic sections in the Bristol district, with considerations on the mode of deposition of the Rhætic series. Quart. Journ. Geol. Soc., 1904, **60**, 170–193. 1904.1

Fish-remains, sharks and ganoids, from the Redland bone-bed, 172–173.

Shrigley, *Nathaniel.* A true relation of Virginia and Maryland, with the commodities therein . . . by Nathaniel Shrigley, anno 1669 (Reprint in Force's Collection of historical tracts, vol. iii, no. 7. Washington, 1844. 6 p. 8°) 1844.1

Shtukenbergh, *A. A.* Die Fauna der obercarbonischen Schicht des Wolgadurchbruches [Text in Russian] Mém. Comité Géol., St. Pétersb., 1905, n. s. **23**, i–xiv; 1–114. 13 pls. 1905.1

Shufeldt, *Robert Wilson* [1850—] Osteology of the large-mouthed black bass, *Micropterus salmoides.* Science, 1884, n. s. **3**, 532. 1884.1

Records a pair of freely articulated ribs at the base of the occiput.

—— Osteology of *Micropterus salmoides.* Science, 1884, n. s. **3**, 749. fig. 1884.2

—— The osteology of *Amia calva*, including certain special references to the skeleton of teleosteans. Rept. U. S. Fish Comm. 1883 (1885), **11**, 747–878. 14 pls. 1885.1

—— Outlines for a museum of anatomy. Washington, 1885. 65 p. 6 figs. 8°. 1885.2

Describes the skeletal anatomy of teleosts.

—— Contributions to science and bibliographic résumé of the writings of R. W. Shufeldt. New York, 1887. 20 p. 8°. 1887.1

—— Further studies on *Grammicolepis brachiusculus* Poey. Journ. Morph., 1889, **2**, 271–296. 14 figs. 1889.1

—— On *Protopterus annectens.* Science, 1893, n. s. **22**, 2–3. 1893.1

—— The opah. Forest & Stream, 1893, **41**, 293; 336. fig. 1893.2

—— Deep-sea fishes. The Great Divide, 1894, **11**, 240–241. 5 figs. 1894.1

—— The mounted collection of fish at the U. S. National Museum. Forest & Stream, 1894, **42**, 383; 425. 6 figs. 1894.2

—— Scientific taxidermy for museums. Rept. U. S. Nat. Mus. 1892 (1894), 369–436. 102 pls. 1894.3

Contains notes on mounting of recent fishes.

—— Sea-horses. Pop. Sci. News, 1895, 1; 161. 3 figs. 1895.1

—— First steps in the study of fishes. Observer, 1896, **7**, 566–573. 1896.1

—— The mystery of eels. Pop. Sci. News, 1896, 2–3. 1896.2

—— Sawfish and rays. The Great Divide, 1896, **14**, 48–49. 5 figs. 1896.3

—— Some memoranda concerning sharks. The Great Divide, 1896, **14**, no. 4. 1896.4

—— Applied photography in the study of fishes. Photogram, 1897, **4**, 355–359. 4 figs. 1897.1

—— The aquaria of the U. S. Fish Commission at Washington. Shooting & Fishing, 1897, **23**, 166–167. 4 figs. 1897.2

—— Chapters on the natural history of the United States. New York, 1897. 472 p. illust. 8°. 1897.3

—— Black bass and notes on other fishes. Shooting & Fishing, 1898, **25**, 174–176. 4 figs. 1898.1

—— The camera and the aquarium. Photo Era, 1898, **2**, 147–150. 2 figs. 1898.2

—— The catfishes. Shooting & Fishing, 1898, **24**, 306. fig. 1898.3

—— The crappie and some of its allies. Shooting & Fishing, 1898, **24**, 266. 1898.4

—— Notes on the fishes called gurnards. Shooting & Fishing, 1898, **24**, 286. fig. 1898.5

—— Das Photographieren von lebenden Fischen in Aquarien. Photogr. Mitth., 1898, **36**, 61–64. 3 figs. 1898.6

—— Photographing live bass and other fishes. Photogr. Times, 1898, **30**, 435–439. 3 figs. 1898.7

—— Trout photography. Amer. Field, 1898, **50**, 68. 1898.8

—— The aquaria of the U. S. Fish Commission. Fish & Game Protector. 1899, **1**, 4–5. 5 figs. 1899.1

—— Further experiments in fish photography. Photogr. Times, 1899, **31**, 209–216. 5 figs. 1899.2

—— Peculiar American fishes, 1 & 2. Amer. Field, 1899, **51**, 192–193; 212–213. 3 figs. 1899.3

—— Photographing fishes. Overland, 1899, **33**, 550–551. fig. 1899.4

—— Two interesting fish (snowy grouper and big-eye) Shooting & Fishing, 1899, **27**, 191. 2 figs. 1899.5

—— Fishing with a camera. Cosmopolitan, 1900, **30**, 43–48. 13 figs. 1900.1

—— Notes on the psychology of fishes. Amer. Naturalist, 1900, **34**, 275–281. fig. 1900.2

—— On the sleep of fishes. Shooting & Fishing, 1900, **29**, 226. 1900.3

—— Das Photographieren lebender Fische. Photogr. Rundschau, 1900, **14**, 33–35. 2 figs. 1900.4

—— Photographs of rare fishes. Photogr. Times, 1900, **32**, 158–160. 2 figs. 1900.5

—— Sonderbare Starrkrampf-Erscheinungen bei Fischen. Natur u. Haus, 1900, 8. Jahrg., 273–275. 2 figs. 1900.6

—— Special methods in fish photography. Photo Era, 1900, **5**, 100–103. 3 figs. 1900.7

—— An African lung-fish in captivity. Shooting & Fishing, 1901, **31**, 64. 1901.1

Shufeldt, *R. W.*

—— Artificial propagation of fish in Massachusetts. Shooting & Fishing, 1901, **31**, 64. 1901.2

—— Experiments in photography of live fishes. Bull. U. S. Fish Comm. 1899 (1901), **19**, 1–5. 9 pls. 1901.3

—— Fish at the New York aquarium. Shooting & Fishing, 1901, **31**, 90–91. fig. 1901.4

—— The naked stargazer (a correction) Shooting & Fishing, 1901, **31**, 427. fig. 1901.5

—— Nerves of fishes. Shooting & Fishing, 1901, **31**, 130–131. 1901.6

—— Photographing living fishes under water. Outing, 1901, **38**, 543–547. 3 figs. 1901.7

—— Photographs of fishes taken under water. New York Journal, 1901, no. 6, 772, 23. 4 figs. 1901.8

—— Recent report of the U. S. Fish Commission. Shooting & Fishing, 1901, **31**, 110–111. 1901.9

—— The skeleton of the black bass. Bull. U. S. Fish Comm. 1899 (1901), **19**. 311–320. pl. & figs. 1901.10

—— A spotted sting-ray. Daily Register, Birmingham, Alabama, 1901, **81**, 8. 1901.11

—— The story of the fishes. Shooting & Fishing, 1901, **31**, 90–91. 1901.12

—— Are there scales upon trout? Shooting & Fishing, 1902, **33**, 168–169. 1902.1

—— Big-finned fishes and their habits, curious and otherwise. Shooting & Fishing, 1902, **32**, 307. fig. 1902.2

—— Black bass fishing in Wisconsin. Shooting & Fishing, 1902, **32**, 288–289. fig. 1902.3

—— Fishing for catfish. Shooting & Fishing, 1902, **32**, 28–29. fig. 1902.4

—— The gray snapper. Shooting & Fishing, 1902, **31**, 309–310. fig. 1902.5

—— Notes on yellow perch. Shooting & Fishing, 1902, **31**, 369–370. fig. 1902.6

—— Present status of German carp. Shooting & Fishing, 1902, **31**, 389–390. 1902.7

—— Rearing trout in captivity. Shooting & Fishing, 1902, **32**, 424–425. 2 figs. 1902.8

—— A remarkable fish, the naked stargazer. Shooting & Fishing, 1902, **32**, 407. 1902.9

—— Squeteague and crappie. Shooting & Fishing, 1902, **32**, 184–185. 2 figs. 1902.10

—— Strange little fishes and their ways. Shooting & Fishing, 1902, **32**, 108–109. 2 figs. 1902.11

—— Sunfishes and boyhood days. Shooting & Fishing, 1902, **32**, 8–9. 2 figs. 1902.12

—— The trunk fishes. Shooting & Fishing, 1902, **31**, 249–250. fig. 1902.13

—— White black bass. Shooting & Fishing, 1902, **31**, 349–350. 1902.14

—— With the blackfish in Long Island sound. Shooting & Fishing, 1902, **32**, 144–145. fig. 1902.15

—— Fishes from Maine and elsewhere. Shooting & Fishing, 1903, **34**, 407–408. 1903.1

—— The fishes we call bass. Western Field, 1903, **2**, 252–256. 3 figs. 1903.2

—— Great scarcity of salmon this year. Shooting & Fishing, 1903, **34**, 409. 1903.3

—— A handsome trout. Shooting & Fishing, 1903, **34**, 366–367. 1903.4

—— Improvements at the New York aquarium. Shooting & Fishing, 1903, **34**, 367. 1903.5

—— Increased consumption of carp. Shooting and Fishing, 1903, **34**, 363. 1903.6

—— The jewfish. Shooting & Fishing, 1903, **34**, 206. 1903.7

—— A remarkable fish. Shooting & Fishing, 1903, **34**, 10–11. 1903.8

—— Size of alligator gar. Shooting & Fishing, 1903, **34**, 206. 1903.9

—— Fish that show lights in ocean gloom. Discovery, 1907, **1**, 119–122. 7 figs. 1907.1

—— Formidable powers of electric fishes. Discovery, 1907, **1**, 49–51. 2 figs. 1907.2

—— Das New Yorker Aquarium. Natur u. Haus, Stuttgart, 1907, 14. Jahrg., 65–68. 8 figs. 1907.3

—— The spotted sting-ray. Western Field, 1907, **2**, 263–264. 2 figs. 1907.4

—— Some difficult fish photography. Photogr. Times, 1909, **41**, 402–405. 2 figs. 1909.1

—— Japanese goldfish. Amer. Field, 1910, **73**, 344. fig. 1910.1

—— Rearing fancy Japanese goldfish. Outer's Book, 1910, **20**, 567–572. 6 figs. 1910.2

—— Viviparous fishes. Amateur Sportsman, New York, 1910, **42**, 11–12. fig. 1910.3

—— A plea for more extensive photography of living fishes. Guide to Nature, 1911, **3**, 510–515. 6 figs. 1911.1

—— Aquarium notes. Aquarium, 1912, **1**, 29–30. fig. 1912.1

—— Professor Robert Collett on *Pterycombus brama* Fries. Proc. Biol. Soc. Washington, 1912, **25**, 39–50. fig. 1912.2

—— On the family Pterycombidæ. Aquarium, 1913, **2**, 61–66. 2 pls. & fig. 1913.1

—— History of goldfish. Aquarium, 1914, **2**, 73–77. 7 figs. 1914.1

—— Collections of the New York aquarium. Scient. Amer. Suppl., 1915, **80**, 52–53. illust. 1915.1

—— On the osteology of the fishes of Bermuda. Anat. Rec., 1916, **10**, 405–407. 1916.1

—— Notes on the genera Notropis and Fundulus. Aquatic Life, 1917, **2**, 67–69. 2 figs. 1917.1

—— Observations on the osteology of the porcupine fish (*Diodon hystrix*) Anat. Rec., 1917, **2**, 1–3. 1917.2

Shutt, *Frank T.*, & **Murray,** *J. C.* Appendices to Dr. Knight's Report on the effects of polluted waters on fish life. Marine & Fisheries, Ottawa, Can., 1900, Sess. Paper no. 22 a, 15–18. 1900.1

Sibree, *James.* A naturalist in Madagascar. Philadelphia, 1915. illust. 8°. 1915.1

Contains observations on fishes.

Sicard, *Adrien.* Résumé des études faites à Marseille, depuis trois ans, sur les saumons, truites saumonées et grandes truites des lacs. Ann. Soc. Linn. Départ. Maine-et-Loire, 1865, 7. année, 119–122. 1865.1

—— Etudes sur la nourriture des poissons de mer. Bull. Soc. Acclim. Paris, 1877, 3. sér. **4**, 396–400. 1877.1

Sicher, *Enrico.* Pesci nuovi o poco noti della Sicilia. Atti Soc. Veneto-Trent. Sci. Nat., 1896, 2. ser. **2**, 419–431. 1896.1

—— I pesci e la pesca nel compartimento di Catania, con due note sui generi Læmargus e Mæna. Atti Accad. Gioenia Sci. Nat. Catania, 1898, 4. ser. **11**, no. 5, 1–69. 1898.1

Sicherer, *Otto von.* Untersuchungen über die Refraktion der Augen der Süsswasserfische. Arch. Vergl. Ophthalm., Leipzig, 1911, **1**, 481–488. fig. 1911.1

Sichleanu, *Stefano.* Sur les poissons électriques et pseudo-électriques. Arch. Zool. Expér. Gén., 1876, **5**, 4–7. 1876.1

Sichter, *Wilhelm.* Verfahren und Vorrichtung zur Regenerierung des Wassers in Fischbehältern u. dgl. D. R. Pat. Kl. 45 H, 1906, no. 171322. 2 p. pl. 1906.1

Sicklen, *George W. van.* Wind fish. Forest & Stream, 1878, **10**, 219. 1878.1

Sidoriak, *Szymon.* Ein Beitrag zur Entwickelungsgeschichte des endolymphatischen Apparates der Fische. Anat. Anz., 1899, **15**, 93–98. 4 figs. 1899.1

—— Beitrag zur Frage des Verhältnisses zwischen dem Gehörorgane und der Schwimmblase bei den Schlambeissern und Karpfen [Text in Hungarian] Kosmos, Lwów Roczn., 1900, **25**, 399–437. 4 pls. 1900.1

Sidoriak, *Szymon,* & **Nusbaum,** *Josef. See* **Nusbaum & Sidoriak.**

Siebenrock, *Friedrich.* Ueber einige fossile Fische aus Bosnien. Wiss. Mitth. Bosnien, Vienna, 1900, **7**, 683–694. 2 pls. 1900.1

—— Ueber die Verbindungsweise des Schultergürtels mit dem Schädel bei den Teleostiern. Eine morphologische Studie. Ann. Naturhist. Hofmus., Wien, 1901, **16**, 105–141. 2 pls. 1901.1

Sieber, *N.* Zur Frage nach dem Fischgifte. *Bacillus piscicidus agilis,* krankheitserregender Schmarotzer der Fische. Centralbl. Bakter. Parasit., 1895, **17**, 888. — Jahresb. Mikroorganismen, 1895, **11**, 338. 1895.1

Siebold, *Carl Theodor Ernst von* [1804–1885] *Cyprinus farenus* Art., ein preussischer Fisch. Arch. Naturgesch., 1836, 2. Jahrg., 327. 1836.1

—— Ueber die Geschlechtswerkzeuge von Syngnathus und Hippocampus. Arch. Naturgesch., 1842, 8. Jahrg., 292–299. 1842.1

—— Ueber die Fische des Ober-Engadins. Verh. Schweiz. Naturf. Ges., 1847, 173–190. Also separate; Solothurn, 1847. 18 p. 8°. 1847.1

—— Ueber die Micropyle der Fische. Zeitschr. Wiss. Zool., 1856, **7**, 172–175. 1856.1

—— Ueber den Kilch des Bodensees (*Coregonus acronius*) Zeitschr. Wiss. Zool., 1858, **9**, 295–299. 1858.1

—— Ichthyologische Bemerkungen über Süsswasserfische. Amtl. Ber. 35. Vers. Deutsch. Naturf. 1860 (1861), 74–76. 1861.1

—— Ueber den melanotischen Hautausschlag der Cyprinoiden. Amtl. Ber. 35. Vers. Deutsch. Naturf. 1860 (1861), 138–139. 1861.2

—— Die Süsswasserfische von Mitteleuropa. Leipzig, 1863. viii, 430 p. 2 pls. & 64 figs. 8°. 1863.1

—— Ueber die Fische des Ober-Engadins. Verh. Schweiz. Ges. Naturw., 1863, **47**, 173–190. 1863.2

—— Om nogle fiskeformer. Fiskeritidsskr. Finl., 1866, **1**, 193–196. 1866.1

—— Lettre au sujet de plusieurs poissons du lac de Neuchâtel [Abramis et Leuciscus] Bull. Soc. Sci. Nat. Neuchâtel 1865 (1867), **7**, 113. 1867.1

—— Ueber die Versuche, den Saibling (*Salmo umbla*) aus den bayerischen Alpenseen nach Neu-Seeland zu verpflanzen. Sitzber. Bayer. Akad. Wiss. 1868, **1**, 300–307. 1868.1

—— Ueber die Acclimatisation der Salmoneer in Australien und Neu-Seeland. Zeitschr. Wiss. Zool., 1869, **19**, 349–375. — Zool. Garten, 1870, 11. Jahrg., 129–132. — Tidskr. Fiskerinähr. Aquikultur (Malmgren), 1869, 1. Jahrg., 1–24. 1869.1

—— Fauna der Süsswasserfische von Mitteleuropa. Jahresb. Naturk. Ver. Passau, 1878, **11**, 1–82. 1878.1

—— Zur Naturgeschichte des Aals. Vortrag Bayer. Fischereiverein zu München gehalten am 19. November 1881, und fortgesetzt am 28. Januar, 1882. München, 1882. 5 p. 8°. 1882.1

Siebold, *Carl Theodor Ernst von,* & **Stannius,** *F. H.* Handbuch der Zootomie. 2 pts. Berlin, 1845–46. 8°. 1845.1

—— Lehrbuch der vergleichende Anatomie. 2 pts. Berlin, 1846–48. 8°. 1846.1

Theil ii. Wirbelthiere, von H. Stannius.

—— Handbuch der Zootomie. 2. Auflage. 2 pts. Berlin, 1854–56. 8°. 1854.1

Theil ii. Die Wirbelthiere, von H. Stannius.

Siebold, *Philipp Franz von* [1796–1866] De historiæ naturalis in Japonica statu, nec non de augmento emolumentisque in decursu perscrutationum exspectandis dissertatio, cui accedunt Spicilegia faunæ Japonicæ. Bataviæ, 1824. 16 p. 8°. 1824.1

—— The same. 2. Auflage. Wirceburgi, 1826. 20 p. 8°. Review in Isis (Oken), 1826, **2**, 135–143. 1826.1

—— Fauna Japonica, sive descriptio animalium quæ in itinere per Japoniam suscepto annis 1823–30 collegit, notis, observationibus et adumbrationibus illustravit P. F. de Siebold. Conjunctis studiis C. J. Temminck, et H. Schlegel pro vertebratis atque W. de Haan pro invertebratis elaborata. 6 vols. in 4. Lugduni Batavorum, 1833–50. fol. 1842.1

Pisces, p. 323. 160 pls. [1842–] 1850.
For dates of publication of various parts of this work, *see* note by C. D. Sherborn and F. A. Jentink in Proc. Zool. Soc. London, 1895, 149–150.

Siedentopf, *Otto.* *Polycentrus schomburgkii.* Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 73–76. 3 figs. 1915.1

Siedlecki, *Michel.* L'action des solutions des sels alcalins et alcalinsterreux sur les épinoches. C. R. Acad. Sci. Paris, 1903, **137**, 525–527. 1903.1

—— Sur la résistance des épinoches aux changements de la pression osmo-

tique du milieu ambiant. C. R. Acad. Sci. Paris, 1903, **137**, 469–471. 1903.2

Siegl, *Hubert.* Einige weitere Beobachtungen über *Pantodon buchholzi* und seine Zucht. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 771–774. fig. 1912.1

—— Die Aufzucht junger *Pantodon buchholzi* Pet. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 91–93. 1914.1

—— Ein interessanter Laichakt des *Pantodon buchholzi* Pet. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 605–606. 1914.2

Sieglin, *Hermann.* Einbürgerung fremder Nutzfische in Württemberg. 48. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1892, xxvii–xli. 1892.1

—— Die Fischerei-Verhältnisse in Württemberg. Stuttgart, 1896. 207 p. 8°. 1896.1

—— Die Einführung ausländischer Fischarten. Stenogr. Protok. Verh. Intern. Fisch.-Kongr., Wien, 1905, 296–304. — Diskussion desselben, *Ibid.*, 304–307. 1905.1

Siemssen, *Adolf Christian* [1768–1833] Die Fische Mecklenburgs, zum Behuf Vorlesungen an der vaterländische Akademie systematisch verzeichnet. Rostock, 1794. 8°. 1794.1

Sievers, *Klas Richard.* Bidrag till kännedom om Hogland's fisk-fauna. Medd. Soc. Fauna Flora Fenn., 1876, **1**, 60–64. 1876.1

—— De zoologiska samlingarnas tillväxt med för desamma nya arter från den 13 maj 1873 till samma dag 1875. Medd. Soc. Fauna Flora Fenn., 1876, **1**, 139–146. 1876.2

—— Tillväxten af Societas pro Fauna et Flora Fennica zoologiska samlingar. Medd. Soc. Fauna Flora Fenn., 1876, **1**, 120–127; 167–194. 1876.3

Pisces, p. 120; 127; 173.

Sigerson, *G.* Discovery of fish-remains in the alluvial clay of the river Foyle, with observations on the existence and disappearance of an upper Lough Foyle, etc. Proc. Roy. Irish Soc., 1870–74, 2. ser. **1**, 212–214. 1874.1

Sighart, *J.* Albertus Magnus, sein Leben und seine Wissenschaft. Regensburg, 1857. 1857.1

An English translation by Dixon was published at London in 1876.

Sigurdsson, *Jón* [1811–1879] Lítil fiskibók, med uppdráttum og útskýríngum, handa fiskimönnum á Islandi. Kaupmannahöfn, 1859. 8°. 1859.1

Sihleanu, *S.* De' pesci elettrici e pseudo-elettrici. Napoli, 1876. 108 p. pl. 4°. 1876.1

Sikorskij, *V. L.* Die Fischzucht in Teichen und Seen. I. Ueber die Einrichtung von Fischzuchtteichen [Text in Russian] St. Petersburg, 1905. vii, 157 p. 8°. 1905.1

Siler, *Andrew L.* Depletion of fish in Panguitch and Bear lakes, Utah. Bull. U. S. Fish Comm., 1884, **4**, 51. 1884.1

Siler, *James W.* Fisheries of Cape Colony, Africa. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1188. 1885.1

Silk, *M.* Introduction du black-bass (*Grystes nigricans*) en Angleterre. Bull. Soc. Acclim. Paris, 1880, 3. ser. **7**, 685. 1880.1

Sillalicum (*pseudon.*) *See* **Perry,** *W. A.*

Silliman, *Benjamin* [1779–1864] On the occurrence of fossil fish in the Connecticut valley. Amer. Journ. Sci., 1821, **3**, 221–222; 365–366. 1821.1

Catopteridæ and Semionotidæ.

—— Notice of the spoonbill sturgeon or paddle fish of the Ohio (*Polyodon feuille* of Lacépède) Amer. Journ. Sci., 1827, **12**, 201–205. pl. 1827.1

Silva, *A. B. da.* Estado actuel das pescas em Portugal. Lisboa, 1892. 104 pls. & map. 8°. 1892.1

—— A pesca do Atum. Revist. Port. Colon. Marit., Lisboa, 1898. 1898.1

Silva Ferro, *Ramon de.* Estudios economicos . . . cientificos respecto á la explotación y riqueza de algunas pesquerias . . . con otros vários informes para servir de precedentes al proyecto de establecer una factoria de pesca . . . en la isla Graciosa, etc. Londres, 1875. xvi, 217 p. 8°. 1875.1

—— Memoria referente á la industria de pesquerias representada en la Exposición Universal de Paris en 1878. Paris, 1879. 183 p. 8°. 1879.1

Silver, *Stephen W.* Catalogue of the York Gate library formed by S. William Silver; an index to the literature of geography, maritime and inland discovery, commerce and colonisation. 2. ed. London, 1886. 333 p. 1886.1

Silvester, *Charles F.* The blood-vascular system of the tile-fish, *Lopholatilus chamæleonticeps.* Bull. Bur. Fisheries, 1904, **24**, 87–114. pl. & 15 figs. 1904.1

—— Fishes new to the fauna of Porto Rico. 14. Yearb. Carnegie Inst. Washington, 1915, 214–217. 1915.1

Seven new species of the following genera are described: Mayerina, Myrophis, Myrichthys, Amia, Mycrospathodon, Rupiscartes.

Silvester, *C. F.*, & **Dahlgren,** *Ulric. See* **Dahlgren & Silvester.**

Silvestre de Lacy, (*Baron*) *Antoine Isaac. See* **Lacy,** (*Baron*) *Antoine Isaac.*

Silvestri, *A.* Lepidocyclinæ ed altri fossili del territorio d' Anghieri. Atti Accad. Lincei, Roma, 1905, **58**, 122–129. 1905.1

Sim, *George* [1835–1908] The tunny (*Scomber thynnus* Linn.) Scottish Naturalist, 1875–76, **3**, 348. 1875.1

—— The food of fishes, etc. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 18. 1883.1

—— The natural history of the herring; with special reference to its migrations, its food and relationship to the whitebait and sprat (In Fish and fisheries, edited by David Herbert, p. 37–50. 2 pls. Edinburgh & London, 1883) 1883.2

—— Occurrence of rare fishes at Aberdeen. Scottish Naturalist, 1883, 2. ser. **2**, 55–57. 1883.3

The forms mentioned are *Rhina squatina, Phycis blennoides, Fierasfer dentatus, Labrax lupus, Mullus surmuletus.*

—— Zoological notes from Aberdeen. Scottish Naturalist, 1885, 10. 1885.1

—— Occurrence of *Lumpenus lampetriformis* on the north coast of Scotland; with notes on its habits, food and the ground it frequents. Journ. Linn. Soc. London (*Zool.*), 1887, **20**, 38–48. 4 figs. & map. 1887.1

—— Occurrence of *Triglops murrayi* Günther, on the east coast of Scotland. Ann. Scottish Nat. Hist., 1892, **1**, 76. 1892.1

—— Occurrence of *Sebastes viviparus* Krøyer, off the east coast of Scotland. Ann. Scottish Nat. Hist., 1893, **2**, 47. 1893.1

—— *Scorpæna dactyloptera* Delaroche in Scottish waters. Ann. Scottish Nat. Hist., 1893, 204–206. 1893.2

—— Streaked gurnard [*Trigla lineata*] off the Kincardine coast. Ann. Scottish Nat. Hist., 1896, 124. 1896.1

—— *Molva abyssorum* in British waters. Ann. Scottish Nat. Hist., 1897, 255. 1897.1

—— Scabbard-fish in Scottish waters. Ann. Scottish Nat. Hist., 1898, 53–54. 1898.1

—— Is *Raia radula* of Couch, Thomson and Yarrell a good species? Ann. Scottish Nat. Hist., 1902, 220–224. 2 pls. 1902.1

—— Occurrence of *Centrophorus ringens* in British waters. Ann. Scottish Nat. Hist., 1902, 13. 1902.2

—— The vertebrate fauna of "Dee." Aberdeen, 1903. 295 p. 5 pls. 8°. 1903.1

The ichthyological portion includes the fishes of the east coast from Wick to Firth of Forth.

Sim, *George,* & **Dyce,** —— *See* **Dyce & Sim.**

Simeon, *Cornwall.* Stray notes on fishing and natural history. Cambridge & London, 1860. xx, 263 p. 8°. 1860.1

—— The same. 2. ed. London, 1863. 8°. 1863.1

Simionescu, *Joan Theodor.* Asupra câtor-va pesci fosili din Terțiarul Romănesc. Public. Fond. Adamachi Acad. Română, 1904, **2**, 205–222. 2 pls. 1904.1

New species are described of Caranx, Gobius and Krambergia.

—— Vorläufige Mitteilung über eine oligocäne Fischfauna aus den rumänischen Karpathen. Verh. Geol. Reichsanst., Wien, 1904, 147–149. 1904.2

Clupeidæ, Murænidæ, Syngnathidæ, Carangidæ, Percidæ, Chætodontidæ, Gobiidæ.

—— Sur quelques poissons fossiles du tertiaire roumain. Ann. Sci. Univ. Jassy, 1905, **3**, 106–122. 2 pls. 1905.1

—— Note sur l'âge des calcaires de Cernavoda (Dobrogea) Ann. Sci. Univ. Jassy, 1906, **4**, 75–77. 2 figs. 1906.1

Contains mention of fossil fishes.

—— *Thynnus albui*, un nou peşte fosil oligocen din muntele Cozla (Piatar-N.) Public. Fond. Adamachi Acad. Română, 1906, **2**, 321–326. pl. 1906.2

Simmen, *Theodor.* Geschichte der Zunftgesellschaft zu Fischern von und zu Erlach. Bern, 1868. 68 p. 8°. 1868.1

Simmermacher, *G.* Einiges über Plattfische und deren Fang in der Kieler Bucht. Zool. Garten, 1883, **24**, 33–37. 1883.1

—— Künstliche Fischzucht-Anstalt in Gremsmühlen (Ost-Holstein) Zool. Garten, 1883, **24**. 1883.2

Simmonæs, *Johan O.* Huru lång tid kan antagas förflyta från det att rom och mjölke äro mogna för lek tills de åter förlora sin utvecklingsförmåga? Fiskeritidskr. Finl., 1896, **5**, 140–142. 1896.1

Simmonds, *Peter Lund* [1814–1897] The commercial products of the sea. New York & London, 1878 [i. e. 1879] 8°. 1879.1

—— The same. 2. ed. London & New York, 1883. viii, 484 p. illust. 8°. 1883.1

Simms *(junior), G. E.* A fish-eating plant. Bull. U. S. Fish Comm. 1884, **4**, 257–259. 1884.1

—— An improvement in hatching and rearing boxes; with notes on the continuous feeding of the fry of Salmonidæ. Bull. U. S. Fish Comm. 1908 (1912), **28**, pt. 2, 1015–1023. 1912.1

Simon, *E. Symbranchus marmoratus,* der gefleckte Kurzschwanzaal. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 314–316. fig. 1914.1

Simonelli, *Vittorio* [1860—] Pesci fossili della Val d'Arno. Atti Soc. Toscana Sci. Nat., 1889, **6** (*Proc. Verb.*), 158–159. 1889.1

Simoni, *L.*, & **Emery,** *C. See* **Emery & Simoni.**

Simons, *G. J.* Beschrijving van het eiland Curaçau, uit verschillende bronnen bijeenverzameld. Oosterwolde, 1868. illust. 8°. 1868.1

List of fishes from Curaçoa, with their local names, p. 151–152.

Simonsen, *Carl.* The herring fisheries near the Isle of Man. Bull. U. S. Fish Comm. 1886 (1887), **6**, 152–155. 1887.1

Simpson *(junior), A. W.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 465. 1879.1

Simpson, *J. Y.* Hermaphroditism (In Todd's Cyclopædia of anatomy and physiology, vol. ii, p. 697. London, 1836–39) 1839.1

Contains observations on fishes.

Simpson, *Sutherland.* The body-temperature of fishes and other marine animals. Proc. Roy. Soc. Edinburgh, 1908, **28**, 66–84. 1908.1

—— Further observations on the body-temperature of fishes [Clupea] Journ. Anat. Physiol., London, 1908, **36**, xlii–xliv. 1908.2

Simroth, *Heinrich Rudolf* [1851—] Die Entstehung der Landthiere; ein biologischer Versuch. Leipzig, 1891. viii, 492 p. illust. 1891.1

Fishes, p. 342–350.

—— Ueber Stimme und Gehör und ihre Abhängigkeit vom Landesleben. Nat. Wochenschr., 1897, **12**, 331–332. 1897.1

—— Ueber das natürliche System der Erde. Verh. Deutsch. Zool. Ges., 1902, 12. Vers., 19–42. 9 figs. 1902.1

—— Neue Gesichtspunkte zur Beurteilung niederer Wirbeltiere. Verh. Deutsch. Zool. Ges., 1905, 15. Vers., 51–66. 2 pls. 1905.1

—— Die Pendulationstheorie. Leipzig, 1907. xii, 564 p. illust. 8°. 1907.1

Fishes, p. 159–217.

—— Ueber die Verbreitung der Haifische. Sitzber. Naturf. Ges., Leipzig, 1907, 33. Jahrg., 11–25. 1907.2

—— Etwas vom Hering; ein Kapitel zur Natur- und Entstehungsgeschichte unseres wichtigsten Fisches und der Knochenfische schlechthin. Aus der Natur, Stuttgart, 1910, **5**, 641–651; 679–688; 717–729; 760–765. 1910.1

—— Die Aalfrage und die Pendulationstheorie. Kosmos, Stuttgart, 1915, 12. Jahrg., 126–133. 3 figs. 1915.1

Sinclair, *(Lieut.-Col.)* —— On pisciculture. Proc. Trans. Nova Scotian Inst. Nat. Sci. 1863–66 (1867), **1**, pt. 4, 26–32. 1867.1

Sinclair, *John.* The statistical account of Scotland. Drawn up from the communications of the ministers of the different parishes. Edinburgh, 1793. vii, 591 p. 8°. 1793.1

“List of the different kinds of fish, which are found in the river and firth of Clyde,” p. 535–538.

Sinclair, *W.* The Allis shad [Clupea] in Irish waters. Irish Naturalist, 1896, **5**, 248. 1896.1

Sindo, *Michitaro,* & **Jordan,** *David Starr.* *See* **Jordan** & **Sindo.**

Sinel, *Joseph.* The fishes of the Channel islands. Rept. Trans. Guernsey Soc. Nat. Sci., 1906, **5**, 56–65. 1906.1

—— An outline of the natural history of our shores . . . with chapters on collecting and preserving marine specimens, etc. London, 1906. xvi, 347 p. illust. 8°. 1906.2

Sinicyn, *D. F.* Beiträge zur Naturgeschichte der Trematoden. Die Distomen der Fische und Frösche aus der Umgegend Warschau's [Text in Russian] Warschau, 1905. 207 p. 6 pls. & 8 figs. 8°. 1905.1

Sink, *Emory W.* The origin of the germ cells in the toadfish (*Opsanus tau*) 14. Rept. Michigan Acad. Sci., 1912, 212–217. 2 pls. 1912.1

Sismonda, *Eugenio* [1815–1870] Descrizione dei pesci e dei crostacei fossili nel Piemonte. Mem. R. Accad. Sci. Torino, 1846, 2. ser. **10**, 1–88. 3 pls. *Ibid.*, **19**, 453–479. 1846.1

—— Descrizione dei pesci e crostacei fossili del Piemonte. Estratto del rapporto del Sig. Ant. Manganotti. Nuov. Ann. Sci. Nat. Bologna, 1851, 3. ser. **3**, 92–96. 1851.1

—— Appendice alla descrizione dei pesci e dei crostacei fossili nel Piemonte. Torino, 1861. pl. 4°. 1861.1

Sisson, *Benjamin H.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 445. 1879.1

Sister Monica (*pseudon.*) *See* **Taylor,** (*Sister*) *Monica.*

Sitgreaves, *Lorenzo.* Report of an expedition down the Zuni and Colorado rivers. Washington, 1853. 79 pls. map. 8°. 1853.1

Descriptions of fishes appearing in these rivers, by Charles F. Girard.

Sivard de Beaulieu, *G.* Essai sur la multiplication des poissons. Valognes, 1851. 32 p. 8°. 1851.1

—— Multiplication des poissons de mer sur les côtes du département de la Manche. Cherbourg, 1852. 27 p. 8°. 1852.1

—— Multiplication des poissons par les méthodes naturelles et artificielles; son application sur les côtes et dans les rivières du département de la Manche. Cherbourg, 1854. 70 p. 8°. 1854.1

—— Sur les poissons du département de la Manche. Mém. Soc. Sci. Nat. Cherbourg, 1855, **3**, 375–376. 1855.1

Sjöberg, *H. R. A.* Från Replot [strömming] Fiskeritidskr. Finl., 1895, **4**, 150. 1895.1

—— Berättelse om fiskeriförhållandena i Replot 1895. Fiskeritidskr. Finl., 1896, **5**, 8–9. 1896.1

—— Fisket i Replot. Fiskeritidskr. Finl., 1896, **5**, 146. 1896.2

—— Vinterfisket i Replot. Fiskeritidskr. Finl., 1896, **5**, 108–113. 1896.3

—— Bref från Replot. Fiskeritidskr. Finl., 1897, **6**, 32–35. 1897.1

—— Stor sik. Fiskeritidskr. Finl., 1897, **6**, 37. 1897.2

—— Strömmingsfisket och säljakten i Replot. Fiskeritidskr. Finl., 1898, **7**, 99. 1898.1

—— Fiskarens små fiender. Fiskeritidskr. Finl., 1899, **8**, 45–48. 1899.1

—— Strömmingsfisket [i Oesterbotten] Fiskeritidskr. Finl., 1899, **8**, 149–150. 1899.2

—— Berättelse öfver fiskeriförhållandena i Replot skärgård under år 1899. Fiskeritidskr. Finl., 1900, **9**, 7–9. 1900.1

—— Hetsjakt på utter i Replot skärgård. Fiskeritidskr. Finl., 1900, **9**, 24–26. 1900.2

—— Bericht über die Fischereiverhältnisse in der Skäres von Replot im Jahre 1902 [Text in Swedish] Fiskeritidskr. Finl., 1903, **12**, 50–53. 1903.1

—— Die Lebensweise und die Wanderungen der Fische in den äusseren Skären [Text in Swedish] Fiskeritidskr. Finl., 1903, **12**, 18–25. 1903.2

—— Tvåkönad strömming [Zwitteriges exemplar von *Clupea harengus* var. *membras*] Fiskeritidskr. Finl., 1911, **20**, 200. 1911.1

Sjöberg, *Olof Reinhold.* Stor sill. Fiskeritidskr. Finl., 1899, **8**, 148. 1899.1

Sjögren, *Anders Johan.* Anteckningar om församlingarne i Kemi-Lappmark. Helsingfors, 1828. 405 p. 8°. 1828.1

Pisciculture, p. 32; 205-206.

Sjöstedt, *Broyr Yngve* [1866 —] Wissenschaftliche Ergebnisse der schwedischen zoologischen Expedition nach dem Kilimandjaro, dem Meru und den umgebenden Massaisteppen Deutsch-Ostafrikas, 1905–06, unter Leitung von . . . Y. Sjöstedt. 3 vols. Stockholm, 1910. illust. 4°. 1910.1

Bd. i, pt. 5. Fishes, by E. Lönnberg. 8 p.

Sjöstedt, *Gösta.* Röd abborre. Tidskr. Jägare & Tidskr., 1894, **2**, 151. 1894.1

—— Guldabborre. Tidskr. Jägare & Fisk., 1895, **3**, 153. 1895.1

Skogman, *A.* Mätiä ja maitia samassa ahvenessa [Hermaphroditisches Exemplar von *Perca fluviatilis*] Luonnon Ystävä, Helsingfors, 1910, **14**, 168. 1910.1

Skomorowski, *T.* Organa muzyczne ryb [The organs of sound in fishes] Przyroda i Przemysl, 1875, **4**, 10–11; 54–55; 77–79. 5 pls. 1875.1

Skorikov, *A. S.* Ueber *Cystoopsis acipenseris* Wagn., den Parasit des *Acipenser ruthenus* [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1902, **17**, 459–460. 1902.1

—— Sur Parasitologie der Störe [Text in Russian] Věst. Rybopromyšl., St. Petersb., 1903, pt. 18, 63–82. pl. 1903.1

—— Zoologische Untersuchung des Wassers des Ladoga-Sees als Trinkwasser [Text in Russian] St. Petersburg, 1910. 123 p. pl. & map. 8°. 1910.1

Contains references to fishes.

Skowronnek, *Fritz.* Die Fischwaid. Handbuch der Fischerei, Fischzucht und Angelei. 2 vols. in 1. Leipzig, 1904. 114 p. 16 pls. & 410 figs. 8°. 1904.1

—— Die Maräne. Kosmos, Stuttgart, 1912, 9. Jahrg., 430–432. fig. 1912.1

Skrydstrup, *V.* Silde-og torskefiskeriet ved Bornholm. Nord. Tidsskr. Fiskeri, 1873, 2. Jahrg., 34–54. 1873.1

—— Laxefiskeriet ved Bornholm. Nord. Tidsskr. Fiskeri, 1875, 2. Jahrg. 15–30. 1875.1

Slack, *J. H.* Practical trout culture. New York, 1872. 143 p. pl. 12°. 1872.1

—— Report on shad-hatching operations in 1873 in the Delaware river. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 409–412. 1874.1

—— Report relative to the hatching and planting of the Penobscot salmon. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 381. 1874.2

—— Snake-eating proclivities of trout. Amer. Sportsman, 1874, **4**, 203. 1874.3

—— Report on California salmon-spawn hatched and distributed. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 431–434. 1876.1

Slade, *Elisha.* Dates of the appearance of herring, shad, bass, tautog, scup, frost-fish, fish-hawks, kingfishers and Greenland seal in Taunton river, from 1871 to 1883, inclusive. Bull. U. S. Fish Comm. 1883, **3**, 478. 1883.1

Slater, *I. L.*, & **Elles,** *Gertrude L.* *See* **Elles** & **Slater.**

Slonaker, *James Rollin.* A comparative study of the point of acute vision in the vertebrates. Amer. Naturalist, 1896, **30**, 24–32. 1896.1

Small, *J.* (*editor*) [1828–1886] A description of the isles of Orkney, by J. Wallace. Reprinted from the original edition of 1693. Edited [with an introduction] by J. Small. London, 1883. 8°. 1883.1

Smallwood, *W. M.* Notes on the atrophy of the eye of *Raja erinacea.* Science, 1908, n. s. **28**, 930–931. 1908.1

Smart, *John.* Remarks on the present condition and prospects of the British fisheries. Aberdeen, 1848. 62 p. 12°. 1848.1

Smart, *John,* **Goldsmith,** ——, & **Johnson,** ——. A Chinese method of fish-culture. Bull. U. S. Fish Comm. 1884, **4**, 88. 1884.1

Smidth, *A. J.* La mer autour du Danemarck, sa qualité salifère et ses courants, spécialement à l'égard de ses poissons importants à la pêche et au commerce. Ann. Voyages, 1869, 55–75. 1869.1

Smidth, *J. K.* Nogle historiske bemærkninger om fiskeriernes tilstand

Smidth, *J. K.* paa Grækernes og Romernes tid samt om de dengang brugte tilberedelsesmaader af saltet og marineret fisk. Fiskeritidskr. Finl., 1872, **6**, 34–62. 1872.1

—— Historical observation on the condition of the fisheries among the ancient Greeks and Romans, and on their mode of salting and pickling fish. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 3–20. 1876.1

Smiles, *Samuel.* Life of a Scotch naturalist: Thomas Edward, associate of the Linnæan Society. New York, [1877?] 1877.1

Chap. xiv. By the seashore, with notes on fishes. Chap. xvi. Discoveries among zoophytes, mollusks and fishes.

Appendix. The fauna of Banffshire. Fishes, p. 367–377.

—— Robert Dick Baker, of Thurso, geologist and botanist. London, 1878. 438 p. 8°. 1878.1

Smiley, *Charles W.* The Spanish mackerel [*Cybium maculatum*] and its artificial propagation. Chicago Field, 1880, **14**, 67–68. — Proc. Amer. Assoc. Adv. Sci., 29. meet., 1880 (1881), 575–583. 1881.1

—— Summary of reports for 1878 by state fish commissioners respecting the increase of food-fishes by artificial propagation. Rept. U. S. Fish Comm. 1878 (1880), **6**, 925–943. 1880.1

—— Changes in the fisheries of the Great Lakes during the decade of 1870–1880. Bull. U. S. Fish Comm. 1881 (1882), **1**, 252–258. — Trans. Amer. Fisheries Soc. 1882 (1883), 28–37. 1882.1

—— Descriptive list of the publications of the United States Fish Commission from its organization in 1871 to December 31, 1879. Rept. U. S. Fish Comm. 1879 (1882), **7**, 781–786. 1882.2

See also reference under Scudder, C. W., 1896.1, *supra.*

—— Answers to one hundred and eighteen questions relating to German carp. Bull. U. S. Fish Comm. 1883, **3**, 241–248. 8 figs. 1883.1

—— Check-list of the published reports of the fish commissioners of the various states of the United States. Bull. U. S. Fish Comm. 1883, **3**, 108–114. 1883.2

—— A geographical catalogue of persons who have stated that they are interested in fish-culture. Bull. U. S. Fish Comm. 1882 (1883), **2**, 393–449. 1883.3

—— Method and results of an effort to collect statistics of the fish trade and consumption of fish throughout the United States. Bull. U. S. Fish Comm. 1882 (1883), **2**, 247–252. 1883.4

—— The proposed use of steamers in the mackerel fishery. Bull. U. S. Fish Comm. 1882 (1883), **2**, 155–158. 1883.5

—— Removal of bass from Indiana to North Carolina by the United States Fish Commission. Bull. U. S. Fish Comm. 1882 (1883), **2**, 116. 1883.6

—— Result of planting shad in the Muskingum river. Bull. U. S. Fish Comm. 1882 (1883), **2**, 32. 1883.7

—— The German carp, and its introduction into the United States. Bull. U. S. Fish Comm. 1883, **3**, 333–336. 1883.8

—— List of papers relating to the work of the United States Fish Commission from its organization in 1871 to July 1, 1883, and which have been published under the direction of the United States Fish Commission, the National Museum, and the tenth census, together with a topical synopsis of the titles. Bull. U. S. Fish Comm. 1883, **3**, 1–84. 1883.9

—— A list of the names and addresses of the fish commissioners of the various states of the United States, and of superintendents of hatcheries, corrected to June 1, 1883. Bull. U. S. Fish Comm. 1883, **3**, 123–127. 1883.10

—— The organization and personnel of the United States Fish Commission. Bull. U. S. Fish Comm. 1883, **3**, 115–116. 1883.11

—— Planting and catch of shad in Coosa river, Alabama. Bull. U. S. Fish Comm. 1883, **3**, 200. 1883.12

—— Alphabetical index to the principal rivers of the United States. Rept. U. S. Fish Comm. 1882 (1884), **10**, 1059–1086. 1884.1

—— Brief notes upon fish and fisheries. Bull. U. S. Fish Comm. 1884, **4**, 305–320; 359–368; 456; 469–470. 1884.2

—— The extent of the use of fish guano as fertilizer. Rept. U. S. Fish Comm. 1881 (1884), **9**, 663–695. 1884.3

—— The German carp and its introduction in the United States. 8. Ann. Rept. Ohio Fish Comm. 1883 (1884), 43–48. 1884.4

—— Index to the distribution made under the auspices of the United States Fish Commission of fish in public waters of the United States during the decade ending 1880. Rept. U. S. Fish Comm. 1881 (1884), **9**, 917–1035. 1884.5

—— The influence of artificial propagation upon production, illustrated by the salmon work of the Sacramento river, California. Bull. U. S. Fish Comm. 1884, **4**, 201–202. 1884.6

—— Inspection of fish and other marine products in the District of Columbia, 1879 to 1883 inclusive. Bull. U. S. Fish Comm. 1884, **4**, 1–12. 1884.7

—— List of 1,817 of the principal lakes of the United States, with a designation of their locations. Rept. U. S. Fish Comm. 1882 (1884), **10**, 59–89. 1884.8

—— List of the principal rivers of the United States which empty into the Atlantic ocean, Pacific ocean and gulf of Mexico, with their tributaries. Rept. U. S. Fish Comm. 1882 (1884), **10**, 91–202. 1884.9

—— Notes on the shad season of 1884, with reference to other species. Bull. U. S. Fish Comm. 1884, **4**, 337–341. 1884.10

—— Occurrence of black grouper or jewfish off Block island. Bull. U. S. Fish Comm. 1884, **4**, 240. 1884.11

—— Remarkable resuscitation of frozen carp. Bull. U. S. Fish Comm. 1884, **4**, 183–184. 1884.12

—— Report on the distribution of carp to July 1, 1881, from young reared in 1879 and 1880. Rept. U. S. Fish Comm. 1882 (1884), **10**, 943–1008. 1884.13

—— Several opinions upon how to catch carp. Bull. U. S. Fish Comm. 1884, **4**, 268–272. 1884.14

—— What fish-culture has first to accomplish. Bull. U. S. Fish Comm. 1884, **4**, 65–68. 1884.15

—— How to distinguish the sex of carp. Bull. U. S. Fish Comm. 1885, **5**, 36–37. 1885.1

—— Notes upon fish and the fisheries. Bull. U. S. Fish Comm. 1885, **5**, 65–112; 337–352; 465–469. 1885.2

—— The principal river fisheries of the United States, with an estimate of the catch for 1880. Rept. U. S. Fish Comm. 1883 (1885), **11**, 281–300. 1885.3

—— Sending catfish to Europe. Bull. U. S. Fish Comm. 1885, **5**, 433–434. 1885.4

—— Some results of carp culture in the United States. Rept. U. S. Fish Comm. 1884 (1886), **12**, 657–890. 1886.1

—— Inspection of fish and other marine products in the District of Columbia. Bull. U. S. Fish Comm. 1886 (1887), **6**, 47–48. 1887.1

—— Notes upon fish and the fisheries. Bull. U. S. Fish Comm. 1886 (1887), **6**, 129–144; 305–320; 401–416; 449–464. 1887.2

—— Loch Leven trout introduced in the United States. Bull. U. S. Fish Comm. 1887 (1889), **7**, 28–32. 1889.1

—— Notes upon fish and the fisheries. Bull. U. S. Fish Comm. 1887 (1889), **7**, 33–48. 1889.2

Smirnov, *N.* Bericht über die Thätigkeit der Mangyschlakstation der Kaspischen Expedition [Text in Russian] Arbeit. Kaspischen Exped., St. Petersb., 1907, **1**, 200–214. 1907.1

—— Ein Beitrag zur Einteilung der Fische in biologische Gruppen. [Text in Russian] Vĕstn. Rybopromyšl., St. Petersb., 1912, **27**, 173–178. 1912.1

Smith, *A.* The food of the Salmonidæ at sea. Journ. Nat. Fish. Cult. Assoc., 1887, **1**, 35–39. 1887.1

Smith, (*Sir*) *Andrew* [1797–1872] Contributions to the natural history of south Africa, etc. Zool. Journ., 1829, **4**, 433–444. 1829.1

—— On the necessity for a revision of the groups included in the Linnæan genus Squalus. Proc. Zool. Soc. London, 1837, pt. 5, 85–86. — Ann. Mag. Nat. Hist., **1**, 72. 1837.1

—— Illustrations of the zoology of south Africa; consisting chiefly of figures and descriptions of the objects of natural history collected during an

Smith, *A.*
expedition into the interior of south Africa in 1834–36. 5 vols. London, 1838–50. illust. 4°. 1849.1

Vol. iv. Pisces. 31 col. pls. 1849.

Smith, (*Sir*) *Andrew,* & **Gulliver,** *G.* On the red corpuscles of the blood of the mud-fish (*Lepidosiren annectens*) Ann. Mag. Nat. Hist., 1848, 2. ser. **2**, 292–294. 1848.1

Smith, *Arthur Donaldson* [1864 —] Through unknown African countries. The first expedition from Somaliland to lake Rudolf. London & New York, 1897. xvi, 471 p. 26 pls. & 6 maps. 1897.1

Appendix A. Report on the fishes, by A. Günther.

Smith, *Bertram G.* The spawning habits of *Chrosomus erythrogaster* Rafinesque. Biol. Bull. Woods Hole, 1908, **15**, 9–18. 5 figs. 1908.1

—— Methods of preparing teleost embryos for class use. Trans. Amer. Micr. Soc., 1914, **33**, 54–55. 1914.1

Smith, *Burnett.* Note on the Miocene drum fish, *Pogonias multidentatus* Cope. Amer. Journ. Sci., 1909, **28**, 275–282. 13 figs. 1909.1

—— On some dinichthyid armor plates from the Marcellus shale. Amer. Naturalist, 1909, **43**, 588–597. 3 figs. 1909.2

Dinichthys halmodeus (Clarke)

—— Notes on some little-known fishes from the New York Devonian. Proc. Acad. Nat. Sci. Philad., 1910, **62**, 656–663. 2 figs. 1910.1

Smith, *Charles Hamilton* [1776–1859] The class Pisces, with supplementary additions by Edward Griffith . . . and Lieut.-Col. Charles Hamilton Smith [and P. B. Lord] London, 1834. 8°. 1834.1

Published as vol. x of Cuvier's Animal Kingdom. London, 1827–35, *q. v.*

Smith, *C. J.* The sexes of whitefish. Forest & Stream, 1878, **9**, 430. 1878.1

—— Some fishes of Oregon. Forest & Stream, 1879, **13**, 826. 1879.1

—— Habits of an Oregon sucker. Forest & Stream, 1880, **15**, 129. 1880.1

—— Salmon of the Pacific coast. How the shad have migrated. Forest & Stream, 1880, **15**, 142. 1880.2

Smith, *E. L.* Hood river, Oregon, as a place for salmon breeding. Bull. U. S. Fish Comm. 1886 (1887), **6**, 87–88. 1887.1

Smith, *E. Victor.* Salmon hybridization. Trans. Pacific Fisheries Soc. 1914 (1915), 71–78. 1915.1

Smith, *Eugene* [1860 —] The fishes of the fresh and brackish waters in the vicinity of New York City. Proc. Linn. Soc. N. Y., 1888–97, no. 9, 9–51. 1888.1

—— Exoglossum east of the Delaware basin. Science, 1905, n. s. **22**, 119–120. 1905.1

—— Fundulus and fresh water. Science, 1912, n. s. **35**, 144–145. 1912.1

Smith, *Everett.* How fish ascend falls. Forest & Stream, 1879, **12**, 276. 1879.1

—— St. Maurice trout. Forest & Stream, 1879, **12**, 174. 1879.2

—— A mammoth cod. Bull. U. S. Fish Comm. 1883, **3**, 443. 1883.1

—— Results of planting shad in the Kennebec river. Bull. U. S. Fish Comm. 1887 (1889), **7**, 16. 1889.1

Smith, *Francis.* A few additional notes on the habits of the flying-fish. Zoologist, 1875, 2. ser. **10**, 4413–4414. 1875.1

Smith, *George.* The art of angling (In his Laboratory, 1799, vol. ii, 244–312. 2 pls.) 1799.1

There is also a later edition, published in 1810.

Smith, *George.* Salmon. Edinburgh New Phil. Journ., 1861, n. s. **14**, 324–326. 1861.1

Smith, *Grafton Elliot.* The cerebral cortex in Lepidosiren, with comparative notes of the interpretation of certain features of the forebrain in other vertebrates. Anat. Anz., 1908, **33**, 513–540. 18 figs. 1908.1

—— The evolution of the brain. Nature, 1910, **82**, 349–350. 1910.1

Smith, *H. Hammond.* The value of the spawning mark. Salmon & Trout Mag., London, 1913, **5**, 59–62. figs. 1913.1

Smith, *Herbert H.* An American home on the Amazons. Scribner's Monthly Mag., 1879, **18**, 692–704. 1879.1

Notes on fish and fishing.

Smith, *Hugh McCormick* [1865 —] Fishing in the lower Potomac. Forest & Stream, 1890, **35**, 458. figs. 1890.1

—— Notes on a collection of fishes from the lower Potomac river, Maryland. Bull. U. S. Fish Comm. 1890 (1892), **10**, 63–72. 3 pls. 1892.1

—— Report on an investigation of the fisheries of lake Ontario. Bull. U. S. Fish Comm. 1890 (1892), **10**, 177–215. 20 pls. 1892.2

—— Fish acclimatization on the Pacific coast. Science, 1893, n. s. **22**, 88–89. 1893.1

—— Report of the division of inquiry regarding the method and statistics of the fisheries. Rept. U. S. Fish Comm. 1889–91 (1893), **17**, 173–204. *Ibid.* 1892 (1894), **18**, cxxxiii–cxci. *Ibid.* 1893 (1895), **19**, 52–57. *Ibid.* 1894 (1896), **20**, 115–175. *Ibid.* 1895 (1896), **21**, 93–123. *Ibid.* 1896 (1898), **22**, 119–145. *Ibid.* 1897 (1898), **23**, cxxv–cxlvi. 1893.2

—— Report on a collection of fishes from the Albemarle region of North Carolina. Bull. U. S. Fish Comm. 1891 (1893), **11**, 185–200. 1893.3

—— Report on the fisheries of the south Atlantic states. Bull. U. S. Fish Comm. 1891 (1893), **11**, 271–356. 2 pls. 1893.4

—— Sharks in lake Nicaragua. Science, 1893, n. s. **22**, 166. 1893.5

—— Economic and natural history notes on fishes of the northern coast of New Jersey. Bull. U. S. Fish Comm. 1892 (1894), **12**, 365–380. 1894.1

—— The fisheries of Japan. Bull. U. S. Fish Comm. 1893 (1894), **13**, 419–438. 1894.2

—— The fisheries of the Great Lakes. Rept. U. S. Fish Comm. 1892 (1894), **18**, 361–464. 1894.3

—— The fyke-nets and fyke-net fisheries of the United States, with notes on the fyke-nets of other countries. Bull. U. S. Fish Comm. 1892 (1894), **12**, 299–356. 29 pls. 1894.4

—— Remarks on the maintenance and improvement of the American fisheries. Bull. U. S. Fish Comm. 1893 (1894), **13**, 287–292. 1894.5

—— Statistics of the fisheries of the United States. Bull. U. S. Fish Comm. 1893 (1894), **13**, 389–417. 1894.6

—— Notes on a reconnaissance of the fisheries of the Pacific coast of the United States in 1894. Bull. U. S. Fish Comm. 1894 (1895), **14**, 223–288. 1895.1

—— Notes on the capture of Atlantic salmon at sea and in the coast waters of the eastern states. Bull. U. S. Fish Comm. 1894 (1895), **14**, 95–100. 2 pls. 1895.2

—— Notes on two hitherto unrecognized species of American whitefishes. Bull. U. S. Fish Comm. 1894 (1895), **14**, 1–13. pl. 1895.3

—— A statistical report on the fisheries of the middle Atlantic states. Bull. U. S. Fish Comm. 1894 (1895), **14**, 339–467. 1895.4

—— Notes on an investigation of the menhaden fishery in 1894, with special reference to the food-fishes taken. Bull. U. S. Fish Comm. 1895 (1896), **15**, 285–302. 1896.1

—— Notes on Biscayne bay, Florida, with reference to its adaptability as the site of a marine hatching and experiment station. Rept. U. S. Fish Comm. 1895 (1896), **21**, 169–191. 1896.2

—— A review of the history and results of the attempts to acclimatize fish and other water animals in the Pacific states. Bull. U. S. Fish Comm. 1895 (1896), **15**, 379–472. 10 pls. 1896.3

—— The fishes found in the vicinity of Woods Hole. Bull. U. S. Fish Comm. 1897 (1898), **17**, 85–111. fig. 1898.1

—— Fishes new to the fauna of southern New England recently collected at Woods Hole. Science, 1898, n. s. **8**, 543–544. 1898.2

—— Fish ova for educational purposes. Science, 1898, n. s. **8**, 671–672. 1898.3

—— Report of the division of scientific inquiry. Rept. U. S. Fish Comm. 1897 (1898), **23**, xci–cxxiv. 1898.4

—— The salmon fishery of Penobscot bay and river in 1895 and 1896. Bull. U. S. Fish Comm. 1897 (1898), **17**, 113–124. 2 pls. & 9 figs. 1898.5

—— Statistics of the fisheries of the interior waters of the United States. Rept. U. S. Fish Comm. 1896 (1898), **22**, 489–574. 1898.6

Smith, *H. M.*

—— Acclimatization of Pacific salmon in the Great Lakes. Rev. Intern. Pêche Piscicult., St. Pétersb., 1899, no. 3, 9–10. 1899.1

—— Fish-fauna of the Woods Hole region. Science, 1899, n. s. **10**, 878–881. 1899.2

—— Fish of the District of Columbia. Washington Post, Nov. 13, 1899. 1899.3

—— Government fish-culture in the United States. Rev. Intern. Pêche Piscicult., St. Petersb., 1899, no. 3, 10–11. 1899.4

—— Interesting fish from the Alabama coast [*Caranx lugubris*] Scient. American, 1899, **80**, 91. 1899.5

—— Notes on the extent and condition of the alewife fisheries of the United States in 1896. Rept. U. S. Fish Comm. 1898 (1899), **24**, 31–43. 1899.6

—— Notice of a filefish new to the fauna of the United States. Bull. U. S. Fish Comm. 1898 (1899), **18**, 273–278. pl. & figs. 1899.7

—— The southern spring mackerel fishery of the United States. Bull. U. S. Fish Comm. 1898 (1899), **18**, 193–271. 1899.8

—— Great improvements to come in fish-culture. Brooklyn Daily Eagle, Dec. 30, 1900 (20th century ed.) 1900.1

—— Report on the inquiry respecting food-fishes and the fishing-grounds. Rept. U. S. Fish Comm. 1899 (1900), **25**, cxix–cxlvi. *Ibid.* 1900 (1901), **26**, 119–135. *Ibid.* 1901 (1902), **27**, 111–140. *Ibid.* 1902 (1904), **28**, 111–142. pl. *Ibid.* 1903 (1905), **29**, 75–100. 1900.2

—— The three-toothed lamprey. Scient. Amer., 1900, **82**, 235. 2 figs. 1900.3

—— Chiasmodon in the Indian ocean. Science, 1901, n. s. **13**, 510–511. 1901.1

—— Concerning the habits of salmon. Astoria (Oregon) Daily Budget, Sept. 2, 1901. 1901.2

—— Additions to the fish fauna [of Woods Hole] in 1900. Bull. U. S. Fish Comm. 1901 (1902), **21**, 32. 1902.1

—— Description of a new species of blenny [*Eulophias tanneri*] from Japan. Bull. U. S. Fish Comm. 1901 (1902), **21**, 93–94. fig. 1902.2

—— Fish and fisheries of the Irish sea [review of work by W. A. Herdman and Robert A. Dawson] Science, 1902, n. s. **16**, 305–306. 1902.3

—— The French sardine industry. Pop. Sci. Monthly, 1901, **2**, 542–556. — Fish. Gazette, **18**, 673–674. — Bull. U. S. Fish Comm. 1901 (1902), **21**, 1–26. 8 pls. & 2 figs. 1902.4

—— Das kleinste bekannte Wirbeltier. Allgem. Fischerei Zeitg., 1902, 27. Jahrg., 224–226. 1902.5

Mistichthys luzonensis Smith.

—— Lampreys ascending falls. St. Nicholas Mag., N. Y., July, 1902, **29**. figs. 1902.6

—— Note on the Scotch method of smoking haddocks. Rept. U. S. Fish Comm. 1901 (1902), **27**, 269–271. 1902.7

—— Notes on five food-fishes of lake Buhi, Luzon, Philippine islands. Bull. U. S. Fish Comm. 1901 (1902), **21**, 167–171. pl. & figs. 1902.8

—— Notes on the subtropical fishes observed in 1900 [at Woods Hole] Bull. U. S. Fish Comm. 1901 (1902), **21**, 32–33. 1902.9

—— Notes on the tagging of four thousand adult cod at Woods Hole, Massachusetts. Rept. U. S. Fish Comm. 1901 (1902), **27**, 193–208. 1902.10

—— Le plus petit vertébré connu. Rev. Scient., 1902, 4. sér. **17**, 345–346. 1902.11

—— Report on the inquiry respecting food-fishes and the fishing-grounds. Rept. U. S. Fish Comm. 1901 (1902), **27**, 111–140. 1902.12

—— The smallest known vertebrate. Science, 1902, n. s. **15**, 30–31. 1902.13

Mistichthys luzonensis Smith.

—— The largest bluefish. Forest & Stream, 1903, **61**, 283. 1903.1

—— Marine animals in interior waters. Science, 1903, n. s. **17**, 114. 1903.2

—— The smallest pygmy among fishes. St. Nicholas Mag., N. Y., June, 1903, **30**. 2 figs. 1903.3

—— Another sea-serpent myth. Forest & Stream, 1904, **63**, 472. 1904.1

—— "As flat as a flounder." St. Nicholas Mag., N. Y., 1904, **31**, 1032–1034. figs. 1904.2

—— Brittany, the land of the sardine. St. Nicholas Mag., N. Y., 1904, **31**, 963–968. figs. 1904.3

—— The common names of the basses and sunfishes. Rept. U. S. Fish Comm. 1902 (1904), **28**, 353–366. 1904.4
Bibliography, p. 365–366.

—— Description of a new species of blind eel, of the genus Anguilla. Proc. Biol. Soc. Washington, 1904, **17**, 121–122. fig. — Amer. Fish Culturist, 1904, **1**, 11–12. fig. 1904.5

—— Effects of the sun's rays on fish ova. Amer. Fish Culturist, 1904, **1**, 15. 1904.6

—— A fish new to Florida waters, *Macrorhamphosus scolopax* (Linnæus) Science, 1904, n. s. **19**, 314. 1904.7

—— Japan, the paramount fishing nation. Trans. Amer. Fisheries Soc., 1904, 111–138. 17 figs. 1904.8

—— A new cottoid fish from Behring sea. Proc. Biol. Soc. Washington, 1904, **17**, 163–164. fig. 1904.9

—— Observations on the herring fisheries of England, Scotland and Holland. Bull. U. S. Fish Comm. 1902 (1904), **22**, 1–16. 2 pls. 1904.10

—— A St. Louis exhibit. The attractions of the government fishery display. Evening Star, Washington, D. C., June 25, 1904. 1904.11

—— Salmon-marking experiments on the Pacific coast. Amer. Fish Culturist, 1904, **1**, 9. 1904.12

—— Zur Naturgeschichte der Regenbogenforelle. Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 169–170. 1904.13

—— The drumming of the drumfishes (Sciænidæ) Science, 1905, n. s. **22**, 376–378. 1905.1

—— Economic aspects of national fish-culture and acclimatization. Rept. U. S. Fish Comm. 1903 (1905), **29**, 14–18. — Forest & Stream, 1905, **64**, 217–218. 1905.2

—— The fisheries of Japan. Nat. Geogr. Mag., Washington, 1905, **16**, 201–220. 13 pls. 1905.3

—— Ichthyologia miscellanea. Abstract in Science, 1905, n. s. **21**, 746. 1905.4

—— The international congress of fisheries at Vienna, 1905. Trans. Amer. Fisheries Soc., 1905, 199–200. 1905.5

—— The latest shark story. Fish. Gazette, 1905, **22**, 621. 1905.6

—— The marking of artificially hatched salmon. Forest & Stream, 1905, **64**, 177. 4 figs. 1905.7

—— Note regarding the promotion of fishery trade between the United States and Japan. Rept. Bur. Fisheries 1904 (1905), 239–243. 1905.8

—— The failure of our shad fisheries. Forest & Stream, 1906, **67**, 17. 1906.1
Published anonymously.

—— Fishery legislation before the Fifty-ninth Congress, first session. Trans. Amer. Fisheries Soc., 1906, 91–96. 1906.2

—— The International Fishery Congress, 1908. Science, 1906, n. s. **24**, 57–58. 1906.3

—— The fishes of North Carolina. Raleigh, 1907. xi, 453 p. 21 pls. & 187 figs. 8°. 1907.1
Published as vol. ii of North Carolina Geological and Economic Survey. The systematic catalogue contains descriptions of 346 species, of which 24 are elasmobranchs, and 322 are teleosts.

—— Our fish immigrants. Nat. Geogr. Mag., Washington, 1907, **18**, 385–400. figs. 1907.2

—— Some observations on European fisheries and fish-culture. Trans. Amer. Fisheries Soc., 1907, 170–179. 1907.3

—— The transplanting of fish. What has been done by the fish commission. Scient. Amer. Suppl., 1908, **66**, 190–192. 1908.1

—— Brittany, the land of the sardine. Nat. Geogr. Mag., Washington, 1909, **20**, 541–573. figs. 1909.1

—— Japanese goldfish, their varieties and cultivation; a practical guide to the Japanese methods of goldfish culture for amateurs and professionals. Washington, D. C., 1909. 112 p. illust. 1909.2

—— King herring; an account of the world's most valuable fish, the industries it supports and the part it has played in history. Nat. Geogr. Mag., Washington, 1909, **20**, 701–735. figs. 1909.3

—— Some giant fishes of the sea. Nat. Geogr. Mag., Washington, 1909, **20**, 637–644. 1909.4

Smith, *H. M.*

—— Federal fish farming, or planting fish by the billion. Nat. Geogr. Mag., Washington, 1910, **21**, 418–446. figs. 1910.1

—— The United States Bureau of Fisheries, its establishment, functions, organization, resources, operations and achievements. Proc. 4. Internat. Cong. Washington. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 2, 1365–1411. 14 pls. 1910.2

—— The conservation of fishery resources. Scient. Amer., 1911, **105**, 149–154. figs. 1911.1

—— The North Atlantic fisheries dispute and its arbitration at The Hague in 1910. Trans. Amer. Fisheries Soc. 1910 (1911), 405–414. 1911.2

—— Note on the occurrence of the whale shark, *Rhinodon typicus*, in the Philippine islands. Proc. Biol. Soc. Washington, 1911, **24**, 97. 1911.3

—— America's most valuable fishes. Nat. Geogr. Mag., Washington, 1912, **23**, 494–514. figs. 1912.1

—— The chimæroid fishes of the Philippine islands, with description of a new species. Scientific results of the Philippine cruise of the fisheries steamer "Albatross" 1907–1910, no. 18. Proc. U. S. Nat. Mus., 1912, **42**, 231–232. pl. 1912.2

Chimæra deani, sp. nov. is described.

—— Description of a new notidanoid shark from the Philippine islands representing a new family. Proc. U. S. Nat. Mus., 1912, **41**, 489–491. 1912.3

—— Philippine sharks. Science, 1912, n. s. **36**, 903. 1912.4

—— The prolificness of Gambusia. Science, 1912, n. s. **36**, 224. 1912.5

—— The squaloid sharks of the Philippine archipelago, with descriptions of new genera and species. Proc. U. S. Nat. Mus., 1912, **41**, 677–685. 5 pls. & 4 figs. 1912.6

—— Statement [on behalf of the Department of Commerce and Labor and the Bureau of Fisheries regarding the trawl-net fishery] Hearings before the committee on the merchant marine and fisheries, House of Representatives, on H. R. 16457 prohibiting the importing and landing of fish caught by the beam trawlers, Tuesday and Wednesday, May 28 and 29, 1912, 100–104. Washington, 1912. 1912.7

—— Description of a new carcharioid shark from the Sulu archipelago. Proc. U. S. Nat. Mus., 1913, **45**, 599–601. pl. & 3 figs. 1913.1

—— The hemiscylliid sharks of the Philippine archipelago, with description of a new genus from the China sea. Proc. U. S. Nat. Mus., 1913, **45**, 567–569. pl. & 2 figs. 1913.2

—— A filefish new to the Atlantic coast of the United States [*Cantherines pullus*] Science, 1914, n. s. **40**, 815. 1914.1

—— The need for a national institute for the technical instruction of fisherfolk. Trans. Amer. Fisheries Soc. 1913 (1914), 41–46. 1914.2

—— The relations of the federal government with the fishing industry of the Pacific coast. Trans. Pacific Fisheries Soc. 1914 (1915), 23–28. 1915.1

—— America's surpassing fisheries. Nat. Geogr. Mag., 1916, **29**, 546–583. figs. 1916.1

—— Sharks, man-eaters and others, with suggestions that Americans turn to economic account some of the smaller species of the Atlantic coast. Amer. Mus. Journ., 1916, **16**, 341–355. figs. 1916.2

Smith, *Hugh McCormick,* & **Bean,** *Barton A.* List of fishes known to inhabit the waters of the district of Columbia and vicinity. Bull. U. S. Fish Comm. 1898 (1899), **18**, 179–187. 1899.1

Smith, *Hugh McCormick,* & **Collins,** *Joseph W. See* **Collins & Smith.**

Smith, *Hugh McCormick,* & **Earll,** *R. Edward. See* **Earll & Smith.**

Smith, *Hugh McCormick,* & **Evermann,** *Barton Warren. See* **Evermann & Smith.**

Smith, *Hugh McCormick,* & **Gill,** *Theodore Nicholas. See* **Gill & Smith.**

Smith, *Hugh McCormick,* **Harris,** *W. C.,* **Sage,** *D.,* & **Townsend,** *C. H. See* **Sage, Townsend** & others.

Smith, *Hugh McCormick,* & **Harron,** *L. G.* Breeding habits of the yellow catfish. Bull. U. S. Fish Comm. 1902 (1904), **22**, 149–154. Abstract in Science, 1903, n. s. **17**, 243–244. 1904.1

Smith, *Hugh McCormick,* & **Kendall,** *William Converse. See* **Kendall & Smith.**

Smith, *Hugh McCormick,* & **Pope,** *T. C. B.* List of fishes collected in Japan in 1903, with descriptions of new genera and species. Proc. U. S. Nat. Mus., 1906, **31**, 459–499. 12 figs. 1906.1

Smith, *Hugh McCormick,* & **Radcliffe,** *Lewis.* Descriptions of three new fishes of the family Chætodontidæ from the Philippine islands. Scientific results of the Philippine cruise of the fisheries steamer "Albatross," 1907–10. No. 9. Proc. U. S. Nat. Mus., 1911, **40**, 319–326. 3 figs. 1911.1

New species are described of Chætodon, Hemiochus and Holacanthus.

—— Description of a new family of pediculate fishes from Celebes. Proc. U. S. Nat. Mus., 1912, **42**, 579–581. pl. 1912.1

Thaumatichthys pagidostomus, n. g. et n. sp.

Smith, *Hugh McCormick,* & **Seale,** *Alvin.* Notes on a collection of fishes from the island of Mindanao, Philippine archipelago, with descriptions of new genera and species. Proc. Biol. Soc. Washington, 1906, **19**, 73–82. 4 figs. 1906.1

Smith, *Hugh McCormick,* & **Snell,** *Merwin-Marie.* Review of the fisheries of the Great Lakes in 1885, with introduction and a description of fishing vessels and boats by J. W. Collins. Rept. U. S. Fish Comm. 1887 (1891), **15**, 3–333. 45 pls. 1891.1

Smith, *J. Hays.* Fish four million years old. Metropol. Mag., N. Y., 1900, **12**, 498–506. figs. 1900.1

A popular article on Triassic fishes of Boonton, New Jersey.

Smith, *J. P. G.* Note on Callichthys and Anableps. Proc. Zool. Soc. London, 1850, 53–57. 1850.1

[**Smith,** *J. W.*] Winter talk on summer pastimes. 1883. 8°. 1883.1

Contains some notes on fishes.

Smith, *James A.* Report of shad-hatching operations by the steamer "Lookout," season of 1885. Bull. U. S. Fish Comm. 1885, **5**, 386–394. 1885.1

—— Report on the work of the United States Fish Commission steamer "Lookout" for the year ending December 31, 1884. Rept. U. S. Fish Comm. 1884 (1886), **12**, 123–127. 1886.1

—— Report of the shad work of the steamer "Fish Hawk" during the season of 1886. Bull. U. S. Fish Comm. 1886 (1887), **6**, 289–293. 1887.1

—— Report of the shad work of the steamer "Lookout" during the season of 1886. Bull. U. S. Fish Comm. 1886 (1887), **6**, 295–297. 1887.2

—— Report of the work of the United States Fish Commission steamer "Lookout" for the year ending December 31, 1885. Rept. U. S. Fish Comm. 1885 (1887), **13**, 97–101. 1887.3

—— Report of operations of the United States Fish Commission steamer "Fisk Hawk" for the year ending December 31, 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 693–697. 1889.1

—— Report of the shad work of the steamer "Fish Hawk" during the season of 1887. Bull. U. S. Fish Comm. 1887 (1889), **7**, 83–89. 1889.2

—— Report on the operations of the steamer "Halcyon" for the year ending December 31, 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 699–700. 1889.3

—— Report on the shad work of the steamer "Fish Hawk" during the season of 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 819–823. 1889.4

—— Report on the shad work of the steamer "Lookout" during the season of 1886. Rept. U. S. Fish Comm. 1886 (1889), **14**, 825–827. 1889.5

Smith, *Jerome Van Crowninshield.* Natural history of the fishes of Massachusetts; embracing a practical essay on angling. Boston, 1833. vii, 399 p. illust. 16°. 1833.1

Trout and angling, p. 319–399.
Review by J. H. Storer in Amer. Journ. Sci., 1839, **36**, 337–349.

—— An examination of the catalogue of the marine and freshwater fishes of Massachusetts contained in Prof. Hitchcock's Report on the geology, etc., of Massachusetts. Boston Journ. Nat. Hist., 1837, **1**, 347–357. 1837.1

—— Natural history of the fishes of Massachusetts; embracing a practical essay on angling. 2. ed. Boston, 1843. vii, 399 p. 16°. 1843.1

Smith, *John.* Conodonts from the Carboniferous limestone strata of the west of Scotland, with notes on the

Smith, *J.*
specimens and descriptions of six new species by Geo. Jennings Hinde. Trans. Nat. Hist. Soc. Glasgow, 1900, n. s. **5**, 336–346. 2 pls. *Ibid.*, 1902, **6**, 274–275. 1900.1

—— Conodonts in Coal Measure strata. Geol.' Mag., 1907, 5. dec. **4**, 239. 1907.1

—— On the occurrence of conodonts in the Arenig-Llandeilo formations of the southern uplands of Scotland. Trans. Nat. Hist. Soc. Glasgow, 1907, n. s. **7**, 235–252. 3 pls. 1907.2

Smith, (*Captain*) *John* [1580–1631] Advertisements for the unexperienced planters of New England, or anywhere; or, the pathway to erect a plantation . . . with additions and corrections as published in 1635 [Reprint] Boston, 1865. 66 p. 4°. 1865.1

Fisheries of New England, p. 20, 31–32. Reprinted also in Coll. Mass. Hist. Soc., 1833, 3. ser. **3**, and extracts from it relating to fishes in Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 151.

Smith, *John Alexander.* Notice of the sea-bream, *Pagellus centrodontus* Cuv., taken in the firth of Forth. Ann. Mag. Nat. Hist., 1852, 2. ser. **9**, 154. 1852.1

—— A ballan wrasse, *Labrus bergylta* [*L. maculatus*] exhibited. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 149–150. 1863.1

—— Description of æquoreal pipe-fish [*Nerophis æquoreus*] Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 438–439. 1863.2

—— Notes of the æquoreal pipe-fish [*Nerophis æquoreus*] Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 290–292. 1863.3

—— Notice of *Pleuronectes punctatus*, Bloch's topknot; and of *Nerophis æquoreus*, the æquoreal pipe-fish. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 139. 1863.4

—— Notice of the ukpam, a large species (probably new) of sting-ray [Trygon Cuv.] found in the Old Calabar river, Africa. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **3**, 64–69. 1863.5

—— *Petromyzon marinus*, the sea-lamprey, exhibited. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 248. 1863.6

—— On the "fulcrum" of Calamoichthys. Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 495. 1866.1

—— Description of Calamoichthys, a new genus of ganoid fish from Old Calabar, western Africa, forming an addition to the family Polypterini. Trans. Roy. Soc. Edinburgh, 1867, **24**, 457–480. Abstract in C. R. Acad. Sci. Paris, **64**, 1003–1004. 1867.1

—— Description of Erpetoichthys, a new genus of ganoid fish from Old Calabar, western Africa, forming an addition to the family Polypterini. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 654–656. Abstract in Ann. Mag. Nat. Hist., 3. ser. **18**, 112–114. 1867.2

Relates to *Calamoichthys calabaricus.* *See* 1867.11, *infra.*

—— A large specimen of the *Cyclopterus lumpus* (the lumpsucker) exhibited. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 355. 1867.3

—— Mackerel in the Boulogne aquarium. Zoologist, 1867, 2. ser. **2**, 917. 1867.4

—— Note of a specimen of *Rhombus hirtus* Yarrell, Muller's top-knot recently taken in the firth of Forth. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 213–214. 1867.5

—— Notice of a new genus of ganoid fish allied to the genus Polypterus, recently received from Old Calabar. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 273–278. 1867.6

—— Notice of a species of pipe-fish of the genus Dorichthys (Kaup) probably new, recently brought from Old Calabar. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 227–228. 1867.7

—— Notice of the "etuet," a species of Tetraodon recently received from the Rev. Alex. Robb, Old Calabar. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 268–272. 1867.8

—— Notice of the occurrence of double or vertical hermaphrodism in a common codfish; *Morrhua vulgaris*, recently taken in the firth of Forth. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 300–302. 1867.9

—— Notice of various specimens of the deformed variety of *Morrhua vulgaris*, the common codfish — the "lord fish" of Yarrell — recently taken in the firth of Forth. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 302–303. 1867.10

—— Perfect specimens of the new ganoid fish *Erpetoichthys* [*Calamoichthys*] *calabaricus*, from Old Calabar, exhibited. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 331–332. 1867.11

—— Recent capture of the *Labrus bergylta* (ballan wrasse) near Cellardykes. Proc. Roy. Phys. Soc. Edinburgh 1862–66 (1867), **3**, 335. 1867.12

—— Notice of true hermaphrodism in the codfish (*Morrhua vulgaris*) and in the herring (*Clupea harengus*) Journ. Anat. Physiol., London, 1870, **4**, 256–258. 1870.1

—— Note of a large common trout (*Salmo fario?*) taken in the river Tay. Proc. Roy. Phys. Soc. Edinburgh, 1878, **4**, 290–291. 1878.1

—— Notice of two new fishes from west Africa: *Ophiocephalus obscurus* Günther and *Synodontis robbianus*, n. s. Proc. Roy. Phys. Soc. Edinburgh 1872–75 (1878), **8**, 89–95. fig. 1878.2

[**Smith,** *John Russell*] A bibliographical catalogue of English writers on angling and ichthyology. London, 1856. 47 p. 12°. 1856.1

This catalogue, which contains 264 works on angling, is founded on the one published by Sir Henry Ellis in 1811, Pickering's "Bibliotheca piscatoria," published in 1836, and the catalogue in the appendix to the New York edition of Walton and Cotton's "Complete angler," 1847. It gives for the first time a fairly complete list of the English writers on ichthyology.

—— The same [Appended to Blakey, Robert. Historical sketches of the angling literature of all nations, p. 293–353. London, 1856. 12°] 1856.2

Smith, *Joseph*. Gleanings from the sea. Andover, Mass., 1887. 399 p. 1887.1

Smith, *Joshua Toulmin* [1816–1869] On the discovery of the remains of a very remarkable reptile or fish in the Chalk of Kent. Geol. Journ., London, 1846, **1**, 21–22. 1846.1

Smith, *Nathaniel*. Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 19–21. 1873.1

Smith, *P. E.* The development of the hypophysis of *Amia calva*. Anat. Record, 1914, **8**, 499–506. 10 figs. 1914.1

Caudal growth of basal layer of ectoderm to form hypophysial rudiment. Contiguity of entoderm.

Smith, (*Miss*) *Rosa*, afterwards **Eigenmann** [1859 —] A list of the fishes of San Diego, California. Submitted to the San Diego Society of Natural History, November 5th, 1880. [Privately published leaflet, San Diego, Cal., 1880] 1880.1

—— On the occurrence of a species of Cremnobates at San Diego, California. Proc. U. S. Nat. Mus., 1880, **3**, 147–149. 1880.2

—— Description of a new gobioid fish (*Othonops eos*) from San Diego, California. Proc. U. S. Nat. Mus., 1881, **4**, 19–21. 1881.1

—— Description of a new species of *Gobiesox* (*G. rhessodon*) from San Diego, California. Proc. U. S. Nat. Mus., 1881, **4**, 140–141. 1881.2

—— Description of a new species of *Uranidea* (*U. rhothea*) from Spokane river, Washington territory. Proc. U. S. Nat. Mus., 1883, **6**, 347–348. 1883.1

—— The life colors of *Cremnobates integripinnis*. Proc. U. S. Nat. Mus., 1883, **6**, 216–217. 1883.2

—— Notes on the fishes of Todos Santos bay, Lower California. Proc. U. S. Nat. Mus., 1883, **6**, 232–236. 1883.3

—— On the life coloration of the young of *Pomacentrus rubicundus*. Proc. U. S. Nat. Mus., 1883, **6**, 652. 1883.4

—— Notes on fishes collected at San Cristobal, Lower California, by Charles H. Townsend, assistant, U. S. Fish Commission. Proc. U. S. Nat. Mus., 1885, **7**, 551–553. 1885.1

—— On the occurrence of a new species of Rhinoptera (*R. encenadæ*) in Todos Santos bay, Lower California. Proc. U. S. Nat. Mus., 1886, **9**, 220. 1886.1

Smith, (*Miss*) *Rosa*, & **Swain,** *J.* Notes on a collection of fishes from Johnston's island [700 miles S. W. of the Hawaiian group] including descriptions of five new species. Proc. U. S. Nat. Mus., 1882, **5**, 119–143. 1882.1

Smith, *S. B.* Efforts to raise trout. Bull. U. S. Fish Comm. 1885, **5**, 435–436. 1885.1

Smith, *Sidney Irving.* The crustacea of the fresh waters of the United States. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 638–665. 1874.1

Synopsis of the parasitic crustacea on United States freshwater fishes. Lists *Argulus catostomi* on sucker, *Lepeophtheirus salmonis* on salmon, *Actheres pimelodi* on channel cat, *Lernatopoda fontinalis* on brook trout, apparently the cause of the death of these fish, *L. siscowet* on lake trout, *L. coregoni* on whitefish, *Cauloxenus stygius* on blind fish, *Lernæocera cruciata* on rock bass and *L. catostomi* on the large-scaled redhorse.

—— Food of freshwater fishes. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 708–709. 1874.2

Smith, *Sidney Irving,* & **Thacher,** *James K.* *See* **Thacher** & **Smith.**

Smith, *Silas B.* On the Chinook names of the salmon in the Columbia river. Proc. U. S. Nat. Mus., 1881, **4**, 391–392. 1881.1

Smith, *Thomas.* Naturalist's cabinet, containing interesting sketches of animal history, illustrative of natures, dispositions, manners and habits of all the most remarkable quadrupeds, birds, fishes, reptiles, etc., in the known world. 6 vols. London, 1806–07. illust. 8°. 1806.1

Smith, *Thomas,* & **Mease,** *James.* The wonders of nature and art, etc. 14 vols. Philadelphia, 1807. 16°. 1807.1

Fishes, vol. xiv, p. 75–84.

Smith, [*Thomas*] *Buckingham* [1810–1871] (*translator*) Narratives of the career of Hernando de Soto in the conquest of Florida, as told by a knight of Elvas, and in a relation by Luys Hernandez de Biedma . . . Translated by Buckingham Smith. New York, 1866. xxviii, 324 p. map. 4° (Bradford Club series, no. 5) 1866.1

Observations on fishes, by Theodore N. Gill, p. 223–226.

—— (*translator*) Relation of Alvar Nuñez Cabeça de Vaca, translated from the Spanish by Buckingham Smith. New York, 1871. x, 300 p. ports. 1871.1

The present edition is a revision of B. Smith's translation privately printed at Washington in 1851. Some mention is made of fishes taken by the expedition in the Gulf region of the United States.

Smith, *W. Anderson.* Curing and preserving fish at home and abroad (In Fish and fisheries, edited by David Herbert, p. 93–105. Edinburgh & London, 1883. 8°) 1883.1

—— The fish supply of great cities; with special reference to the best methods of catching and packing, and of distribution, and other means calculated to facilitate the delivery of the fish in good condition for market (In Fish and fisheries, edited by David Herbert, p. 226–235. Edinburgh & London, 1883) 1883.2

—— Salmon disease; its cause and prevention. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 5. 1883.3

—— The utilisation of fish offal (In Fish and fisheries, edited by David Herbert, p. 200–206. Edinburgh & London, 1883) 1883.4

—— Fishes (In Harvie-Brown, J. A., & Buckley, T. E. A vertebrate fauna of the Outer Hebrides, p. 172–225. Edinburgh, 1888) 1888.1

—— Observations on some west-coast [Scottish] fishes. Proc. Trans. Nat. Hist. Soc. Glasgow, 1888, n. s. **2**, 100–104. 1888.2

—— On the development of *Syngnathus acus* Linn. Proc. Trans. Nat. Hist. Soc. Glasgow, 1890, n. s. **2**, 105–109. pl. 1890.1

—— Report on Spanish sardines. 10. Ann. Rept. Fishery Board Scotland, 1891, pt. 3, 160–170. 1891.1

—— Fishes (In Harvie-Brown, J. A., & Buckley, T. E. A vertebrate fauna of Argyll and the Inner Hebrides, p. 219–234. Edinburgh, 1892) 1892.1

—— Note on *Zeugopterus unimaculatus* Risso, and its habitat. Ann. Scottish Nat. Hist., 1892, **1**, 76–77. 1892.2

—— On protective resemblance in the lumpsucker. 11. Ann. Rept. Fishery Board Scotland, 1893, **11**, 390–391. fig. 1893.1

—— The coloration of fishes. Trans. Nat. Hist. Soc. Glasgow, 1897, n. s. **4**, 335–343. 1897.1

—— Informe sobre la introducción del salmon en Chile. Min. Indus. Obras Pub., 1897, no. 6, 5–11. 1897.2

Smith, *W. Ramsay.* On the food of fishes. 9. Ann. Rept. Fishery Board Scotland, 1891, pt. 3, 222–242. 1891.1

—— A case of hermaphroditism in a haddock (*Gadus æglefinus*) 9. Ann. Rept. Fishery Board Scotland, 1891, pt. 3, 352. fig. 1891.2

—— The food of fish. 10. Ann. Rept. Fishery Board Scotland, 1892, 211–231. — Rept. Brit. Assoc. Adv. Sci., 62. meet., 1892, 772. 1892.1

Smith, *W. S.* Further evidence of Lough Neagh fishermen as to the causes of injuries to pollan. Irish Naturalist, 1905, **14**, 94–95. 1905.1

Smithers, *E. J.* Carp culture in China. Bull. U. S. Fish Comm. 1885, **5**, 249–250. 1885.1

Smithies, *J. H.* The salmon and its species. Fish. Gazette, 1880, **4**, 176. 1880.1

Smitt, *Fredrik Adam* [1839–1904] Description d'un hareng hermaphrodite. Arch. Biol., 1882, **3**, 259–275. 1882.1

—— Schematisk framställning af de i Riksmuseum befintliga laxartade fiskarnes slägtskapsförhållanden. Oefver. Akad. Forh., Stockholm, 1882, **39**, 31–40. 1882.2

—— The Swedish fisheries. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **5**, pt. 6. 1883.1

—— Kritisk förteckning öfver de i Riksmuseum befintliga Salmonider. Handl. Svenska Vet. Akad., 1886, **21**, no. 8, 1–290. 6 pls. & 13 tables. 1886.1

—— Om Sillrasernas betydelse. Bihang Svenska Vet. Akad. Handl., 1888, **14**, no. 12, 1–18. 1888.1

—— (*editor*) A history of Scandinavian fishes, by B. Fries, C. U. Ekström, and C. Sundevall. 2. ed. revised and completed by F. A. Smitt. 2 pts. Stockholm & London, 1893–95. 566 p. illust. 4°. 1893.1

—— La filiation des espèces d'animaux. C. R. Séan. 3. Congr. Intern. Zool., Leyde, 1895, 235–238. 1895.1

—— On the habitat of *Gobius elapoides* Gthr. Ann. Mag. Nat. Hist., 1896, 6. ser. **18**, 196. 1896.1

—— Poissons de l'expédition scientifique à la Terre de Feu. I. Nototheniæ. Bihang Svenska Vet. Akad. Handl., 1897, **23**, no. 3, 1–37. 3 pls. *Ibid.*, 1899, **24**, no. 5, 1–80. 6 pls. 1897.1

—— On the genus Lycodes. Ann. Mag. Nat. Hist., 1900, 7. ser. **5**, 56–58. Bihang Svenska Vet. Akad. Handl., 1901, **27**, no. 4, 1–45. pl. & 5 tables. 1900.1

—— Preliminary notes on the arrangement of the genus Gobius, with an enumeration of its European species. Oefver. Svenska Vet. Akad. Forh., 1900, 543–555. 1900.2

—— Poissons d'eau douce de la Patagonie recueillis par E. Nordenskiöld, 1898–99. Bihang Svenska Vet. Akad. Handl., 1901, **26**, no. 13, 1–31. 4 pls. 1901.1

Smolenskiĭ, *P. O.* Ueber die Zusammensetzung einiger Fischprodukte. Hygienische Rundschau, 1897. 1897.1

Smythies, *E. A.* The introduction of English brown trout into Kumaon. Ind. Forester, Allahabad, 1910, **36**, 503–512. 1910.1

Snell, *Merwin-Marie,* & **Smith,** *Hugh McCormick. See* **Smith & Snell.**

Snellen von Vollenhoven, —— Over kunstmatige vischteelt. Alg. Konst- en Letterb., 1854, 215. 1854.1

Snellman, *Robert W.* Alfiskeförsöken med hommor vid Finlands sydkust 1899. Fiskeritidskr. Finl., 1899, **8**, 153–164. 1899.1

—— Något om fiskeriförhållandena på kuststräckan Brahestad — Kalajoki. Fiskeritidskr. Finl., 1899, **8**, 81–86. 1899.2

Snethlage, *Emilia.* Novas especies de peixes amazonicos das collecções do Museu Goeldi (Segundo os trabalhos do conselheiro Dr. Steindachner) Bol. Mus. Goeldi Pará, 1909, **5**, 449–555. 1909.1

Snickt, *L. van der.* Brochets, carpes et perches. Etangs & Rivières, 1896, 9. année, 7–9; 21–25. 1896.1

—— Influence de l'alimentation sur la qualité des carpes. Etangs & Rivières, 1896, 9. année, 65–68. 1896.2

Snider, *L. C.* Geology of a portion of northeastern Oklahoma. Paleontology of the Chester group in Oklahoma. Norman, Oklahoma, 1915. 122 p. 6 pls. & 4 figs. 1915.1

References to fossil fishes.

Sniežek, *Jan.* Tarliska i rozwój węgorza [Le développement des anguilles] Okóln, Organ Krajow. Towarz. Ryback. Kraków., 1909, 324–329. 1909.1

Snodgrass, *Robert Evans,* & **Heller,** *Edmund.* Papers from the Hopkins-Stanford Galapagos Expedition, 1898–1899. XV. New fishes. Proc. Wash-

Snodgrass & Heller.
ington Acad. Sci., 1903, **5**, 189–229. 19 pls. 1903.1

—— Papers from the Hopkins-Stanford Galapagos Expedition, 1898–1899. XVII. Shore fishes of the Revillagigedo, Clipperton, Cocos and Galapagos islands. Proc. Washington Acad. Sci., 1905, **6**, 333–427. 1905.1

—— Shore fishes of the Revillagigedo, Clipperton, Cocos and Galapagos islands. In Hopkins-Stanford Galapagos Expedition, 1898, 1899. Washington, 1906. 95 p. 8°. 1906.1

Snow, *Francis Huntington* [1840 —] The fishes of the Kansas river at Lawrence. Ann. Rept. Kansas State Board Agric., 1875, **4**, 139–141. 1875.1

Snow, *Freeman.* Treaties and topics in American diplomacy. Boston, 1894. 1894.1

The fisheries question is treated in p. 427–470 in a thorough and clear manner.

Snyder, *John Otterbein* [1867 —] A catalogue of the shore fishes collected by the steamer "Albatross" about the Hawaiian islands in 1902. Bull. U. S. Fish Comm. 1902 (1904), **22**, 513–538. 13 pls. 1904.1

—— Critical notes on *Mylocheilus lateralis* and *Leuciscus caurinus.* Rept. Bur. Fisheries 1904 (1905), 340–342. 1905.1

—— Notes on the fishes of the streams flowing into San Francisco bay, California. Rept. Bur. Fisheries 1904 (1905), 327–338. pl. & map. 1905.2

—— A review of the Mullidæ, surmullets or goatfishes of the shores of Japan. Proc. U. S. Nat. Mus., 1907, **32**, 87–102. 3 figs. 1907.1

—— Descriptions of eighteen new species and two new genera of fishes from Japan and the Riu Kiu islands. Proc. U. S. Nat. Mus., 1908, **35**, 93–111. 1908.1

—— Description of *Pantosteus santaanæ,* a new species of fish from the Santa-Ana river, California. Proc. U. S. Nat. Mus., 1908, **34**, 33–34. 1908.2

—— Description of *Trachypterus seleniris,* a new species of ribbonfish from Monterey bay, California. Proc. Acad. Nat. Sci. Philad., 1908, **60**, 319–320. 1908.3

—— The fauna of Russian river, California, and its relation to that of the Sacramento. Science, 1908, n. s. **27**, 269–271. fig. 1908.4

—— The fishes of the coastal streams of Oregon and northern California. Bull. Bur. Fisheries, 1908, **27**, 153–189. 5 figs. & map. 1908.5

—— Notes on two rare California fishes, *Rimicola eigenmanni* and *Plagiogrammus hopkinsi.* Proc. U. S. Nat. Mus., 1908, **35**, 183–186. 1908.6

—— Relationships of the fish fauna of the lakes of south-eastern Oregon. Bull. Bur. Fisheries, 1908, **27**, 69–102. pl. & map. 1908.7

—— Descriptions of new genera and species of fishes from Japan and the Riu Kiu islands. Proc. U. S. Nat. Mus., 1909, **36**, 597–610. 1909.1

—— Descriptions of new genera and species of fishes from Japan and the Riu Kiu islands. Proc. U. S. Nat. Mus., 1911, **40**, 525–549. 1911.1

—— The fishes of Okinawa, one of the Riu Kiu islands. Proc. U. S. Nat. Mus., 1912, **42**, 487–519. 9 pls. 1912.1

—— The fishes of the streams tributary to Monterey bay, California. Bull. Bur. Fisheries, 1912, **32**, 47–72. 6 pls. & 3 figs. 1912.2

—— Japanese shore fishes collected by the United States Bureau of Fisheries steamer "Albatross" expedition of 1906. Proc. U. S. Nat. Mus., 1912, **42**, 399–450. 11 pls. & 2 figs. 1912.3

—— A new species of trout from lake Tahoe. Bull. Bur. Fisheries, 1912, **32**, Doc. no. 768, 25–28. 1912.4

—— Notes on *Ranzania makua* Jenkins and other species of fishes of rare occurrence on the California coast. Proc. U. S. Nat. Mus., 1913, **44**, 455–460. pl. 1913.1

—— Notes on a collection of fishes made by Dr. Edgar A. Mearns from rivers tributary to the gulf of California. Proc. U. S. Nat. Mus., 1915, **49**, 573–586. 2 pls. 1915.1

Notropis mearnsi, n. sp.

Snyder, *John Otterbein,* & **Jordan,** *David Starr. See* **Jordan & Snyder.**

Snyder, *John Otterbein,* **Jordan,** *David Starr,* & **Tanaka,** *Shigeho. See* **Jordan, Tanaka & Snyder.**

Snyder, *J. P.* Notes on striped bass. Trans. Amer. Fisheries Soc., 43. meet., 1913 (1914), 93–96. 1914.1

Soave, *F.* Congetture sulla scossa della torpedine. Opusc. Scelt. Sci. Arti, Milano, 1781, **3**. 1781.1

Sobbe, —— Ein bemerkendwerter Fall von Fischvergiftung. Berlin, Klin. Wochenschr., 1889, no. 7. 1889.1

Sobotta, *Johannes.* Ueber Mesoderm-, Herz-, Gefäss- und Blutbildung bei Salmoniden. Anat. Anz. (Verh. Anat. Ges.), 1894, **10**, 77–84. 1894.1

—— Die Entwickelung der Vorniere der Salmoniden. Anat. Anz., 1895, **10**, 333–336. 2 figs. 1895.1

—— Die Gastrulation von *Amia calva.* Anat. Anz. (Verh. Anat. Ges.), 1896, **12**, 108–111. 6 figs. Abstracts in Nat. Rundshau, Jena, **12**, 23–24.—Journ. Roy. Micr. Soc. London, 604. 1896.1

—— Zur Entwickelung von *Belone acus.* Anat. Anz. (Verh. Anat. Ges.), 1896, **12**, 93–96. 1896.2

—— Beobachtungen über den Gastrulationsvorgang beim Amphioxus. Verh. Phys.-Med. Ges. Würzburg, 1897, **31**, 101–121. pl. & 20 figs. Abstracts in Zool. Centralbl., 4. Jahrg., 712–714. —Sitzber. Phys.-Med. Ges. Würzburg, 1897, 9. 1897.1

—— Die Reifung und Befruchtung des Eies von *Amphioxus lanceolatus.* Arch. Mikr. Anat., 1897, **50**, 15–71. 4 pls. 1897.2

—— Die morphologische Bedeutung der Kupffer'schen Blase; ein Beitrag zur Gastrulation der Teleostier. Verh. Phys. Med. Ges. Würzburg, 1898, n. s. **32**, no. 3. 17 p. pl. & figs. 1898.1

—— Ueber die Entwickelung des Blutes, des Herzens und der grossen Gefässstämme der Salmoniden nebst Mitteilungen über die Ausbildung der Herzform. Anat. Hefte, 1902, **19**, 1. Abth., 579–688. 10 pls. 1902.1

Sodoffsky, *W.* Ueber die Störgattungen des Caspischen und Schwarzen Meeres. Correspbl. Naturf. Ver. Riga, 1849, **3**, 41–47; 69–81. 1849.1

—— Ueber die rationelle Fischcultur, die künstliche Befruchtung, Ausbrütung und Erziehung der Fische in sich begreifend. Correspbl. Naturf. Ver. Riga, 1858, 10. Jahrg., 105–114; 137–145; 153–163. 1858.1

Sörensen, *William. See* **Sørensen,** *William.*

Sograff, *N. See* **Zograf,** *Nikolai Yurevich.*

Sokolinikov, *N. P.* Zur Kenntnis der Fischereien von Nord-Ost-Siberien. Russ. Sudochod. St. Petersb., 1911, **25–26**, pt. 1, 85–113; pt. 2, 49–67; pt. 3, 74–85, f. 9–13; pt. 4, 11–27. 1911.1

This paper is the continuation of one by I. D. Kuznetzov, entitled "Der gegewärtige Zustand der Fischerei im Baikal-See," published in 1909.

Sokolov, *A. J.* Zur Entwicklungsgeschichte der Thymusdrüse bei den Sterletten [Text in Russian] Mém. Sci. Univ. Imp. Kazan, 1912, **79**, pt. 4, 1–33. 1912.1

Sokolovsky, *Alexander.* Ein typischer Sargasso-Fisch [*Antennarius marmoratus*] Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 325–326. fig. 1915.1

—— Ein Schwimmspezialist unter den Fischen [*Amphisyle scutata*] Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 105. fig. 1916.1

Solá, *Francisco García. See* **García Solá,** *F.*

Soland, *Aimé de.* Etude sur les poissons de l'Anjou. Ann. Soc. Linn. Départ. Maine-et-Loire, 1869, 11. année, 189–276. 2 pls. 1869.1

Solander, *Daniel Carl* [1736–1782] Manuscript lists and descriptions of animals [fishes] and plants collected during Capt. Cook's first voyage, 1768–1771. 1768.1

Original preserved in library of the British Museum (Natural History) Solander was a naturalist who attached himself to Capt. Cook's voyage in the "Endeavour."

i. Pisces & animalia cætera oceani Pacifici.
ii. Pisces Australiæ.
iii. Pisces, etc., Novæ Hollandiæ.

—— Pisces Islandici. Zoological manuscripts, 1772. [8] 6 [10] p. 4°. 1772.1

Autograph descriptions and notes on the fish and some other animals obtained during the visit to Iceland in 1772. MS. preserved in British Museum of Natural History.

Soldatov, *V. K.* Kurze Uebersicht der Untersuchungen über die Biologie von *Pucorhynchus lagocephalus* und Proteus im Unterlauf des Amur [Text in Russian] Izv. Vost.-Sib. Otd. Russ. Geogr. Obšč., Irkutsk, 1910, **39**, 60–64. 1910.1

—— Erforschung der Biologie der Lachse. Teil I [Text in Russian] St. Petersburg, 1912. 223 p. 8 pls. 8°. 1912.1

Soldatov, *V. K.*
—— Untersuchungen über die Biologie der Salmoniden des Amur. Erster Teil (In Die Fischereien des Fernen Ostens. VII [Text in Russian] Dept. Landwirtschaft, St. Petersburg, 1912. i, 223 p. 14 pls.) 1912.2

Soldatov, *V. K.*, **Göbel,** *J.*, **Breitfuss,** *L. L.*, & others. *See* **Breitfuss, Soldatov** & others.

Solger, *Bernhard Friedrich* [1849 —] Ueber zwei im Bereiche des Visceralskelets von *Chimæra monstrosa* vorkommende noch unbeschriebene Knorpelstückchen. Morphol. Jahrb., 1876, **1**, 219–221. 1876.1

—— Ueber Perlfische. Sitzber. Naturf. Ges. Halle, 1878, 24. 1878.1

—— Zur Kenntniss der Seitenorgane der Knochenfische. Leopoldina, 1878, **14**, 74–80; 159–160. 1878.2

—— Neue Untersuchungen zur Anatomie der Seitenorgane der Fische 1880–81. 1880.1

i. Die Seitenorgane von Chimæra. Arch. Mikr. Anat., 1880, **17**, 95–113. pl.
ii. Die Seitenorgane der Selachier. *Ibid.*, 458–479. pl.
iii. Die Seitenorgane der Knochenfische. *Ibid.*, 1881, **18**, 364–390. pl.

—— Ueber den feineren Bau der Seitenorgane der Fische. Sitzber. Naturf. Ges. Halle, 1880, 105–109. pl. 1880.2

—— Zur Kenntniss der Verbreitung von Leuchtorganen bei Fischen. Arch. Mikr. Anat., 1881, **19**, 147–152. 1881.1

—— Beiträge zur Kenntniss der Niere und besonders der Nierenpigmente niederer Wirbelthiere. Abh. Naturf. Ges. Halle, 1882, **15**, 405–444. pl. 1882.1

Fische, p. 412–420.

—— Bemerkung über die Seitenorganketten der Fische. Zool. Anz., 1882, **5**, 660–661. 1882.2

—— Dottertropfen in der intracapsulären Flüssigkeit von Fischeiern. Arch. Mikr. Anat., 1885, **26**, 321–334. pl. Abstract in Journ. Roy. Micr. Soc., 1885, **6**, 211–212. 1885.1

—— Ueber die Cupula terminalis der Seitenorgane der Fische. Verh. Ges. Deutsch. Naturf., 1887, **60**, 93. 1887.1

—— Notiz über die Nebenhöhle des Geruchsorgans von *Gasterosteus aculeatus* L. Zeitschr. Wiss. Zool., 1893, **57**, 186. fig. 1893.1

—— Schnitte durch Ganglienzellen des Lobus electricus von Torpedo. Biol. Centralbl., 1897, **17**, 512. 1897.1

—— Ueber die Structur der Ganglienzelle, besonders derjenigen des elektrischen Lappens von Torpedo. Verh. Ges. Deutsch. Naturf., 1897, **69**. 1897.2

—— Mauthner'sche Fasern bei Chimæra. Morphol. Jahrb., 1899, **27**, 322–324. fig. 1899.1

—— Ueber die "intracellulären Fäden" der Ganglienzellen des elektrischen Lappens von Torpedo. Morphol. Jahrb., 1902, **31**, 104–115. pl. 1902.1

Solger, *Bernhard Friedrich,* **Esch,** *Ernst*, & others. *See* **Esch, Solger** & others.

Solla, *R.* Piscicoltura, astacicoltura e ostreicoltura. Milano, 1895. figs. 8°. 1895.1

Sollas, (*Miss*) *Igerna B. J.* Pisces (record for 1905) Zool. Record, 1906, **42**. 53 p. 1906.1

—— Pisces (record for 1906) Zool. Record, 1907, **43**. 60 p. 1907.1

Sollas, (*Miss*) *Igerna B. J.*, & **Sollas,** *William Johnson*. *See* **Sollas & Sollas.**

Sollas, *J. B. V.* Prochordata (Cephalochorda, etc.) from the Zoological Record for 1908. London, 1909. 8 p. 1909.1

Sollas, *William Johnson* [1849 —] On the origin of freshwater faunas: a study in evolution. Dublin, 1884. 4°. 1884.1

—— The investigation of fossil remains by serial sections. Rept. Brit. Assoc. Adv. Sci., 71. meet., 1901, 643. — Science, 1901, n. s. **14**, 636. 1901.1

—— A method for the investigation of fossils by serial sections. Phil. Trans. Roy. Soc. London, 1904, **196** *B*, 259–265. Abstract in Proc. Roy. Soc. London, 1904, **72**, 98–99. 1904.1

Sollas, *William Johnson*, & **Sollas,** (*Miss*) *Igerna B. J.* An account of the Devonian fish, *Palæospondylus gunni* Traquair. Phil. Trans. Roy. Soc. London, 1904, 267–294. 2 pls. 1904.1

Solotnizky, *N. F. von.* Drei Meergrundeln aus dem Flusse Don im Aquarium. Natur u. Haus, 1901, **9**, 114–119. 1901.1

—— Der Sterlet in Freiheit und im Aquarium. Natur u. Haus, 1901, **9**, 405–408. 1901.2

—— Meine dreizehn Spritzfische (*Toxotes jaculator*) Natur u. Haus, 1902, **10**, 289–291; 311–315. 1902.1

—— Der russische Wels in Freiheit und im Aquarium. Natur u. Haus, 1902, **10**, 45–47; 82–84. 1902.2

—— Neue Aquarienfische und -Pflanzen [Text in Russian] Moskva, 1910. 378 p. fig. 8°. 1910.1

Somervail, *Alexander*. On the occurrence of Strepsodus and Rhizodopsis in the upper Coal Measures of Edmonstone, Mid-Lothian. Trans. Edinburgh Geol. Soc. 1871 (1872), **2**, 137–138. 1872.1

Somigli, *C*. La pesca marittima industriale. Torino, 1912. 266 p. figs. 12°. 1912.1

Sonnenburg, *Ludwig*. Zoologisch-kritische Bemerkungen zu Aristotles Thiergeschichte. Program K. Gymnas. Bonn, 1857. 27 p. 1857.1

See also references under Aristotle, Ogle, Sundevall and D'Arcy W. Thompson, in the present Bibliography.

Sonnerat, *Pierre* [1749–1814] Description du *Guaperva* [*Balistes*] *maculata*. Observ. Phys. Hist. Nat. (Rozier), 1774, **3**, 443. pl. *Ibid.*, **4**, 78. pl. *Ibid.*, **5**, 76. 1774.1

—— Observation d'un phénomène singulier sur des poissons qui vivent dans une eau qui a 69 degrés de chaleur. Observ. Phys. Hist. Nat. (Rozier), 1774, **3**, 256–257. 1774.2

—— An account of a voyage to New Guinea . . . with notes (Index rerum naturalium tabulis æneis incisarum, etc.) Paris, 1775. xlv, 150 p. 8°. 1775.1

This contains a very brief abstract of the "Voyage à la Nouvelle Guinée" (which was published in 1776, not 1775) condensed into 77 pages, the remainder being taken up by the translator's notes and the index to the plates, which were not, however, reproduced.

—— Voyage à la Nouvelle Guinée, dans lequel on trouve la description des lieux, des observations physiques . . . et des détails relatifs à l'histoire naturelle dans le règne animal et le règne végétal. Paris, 1776. xii, 206 p. illust. 4°. 1776.1

—— Sonnerat's . . . Reise nach Neuguinea. Aus dem Französischen übersetzt von J. P. Ebeling. Leipzig, 1777. 71 p. illust. 4°. 1777.1

—— Voyages aux Indes orientales et à la Chine, fait . . . depuis 1774 jusqu'en 1781: dans lequel on traite . . . des Indiens, des Chinois, des Pégouins et des Madégasses; suivi d'observations sur le cap de Bonne-Espérance, les isles de France et de Bourbon, les Maldives, Ceylan, Malacca, les Philippines et les Moluques, et de recherches sur l'histoire naturelle de ces pays. 2 vols. Paris, 1782. illust. 4°. 1782.1

—— Reise nach Ostindien und China. 2 vols. Zürich, 1783. 4°. 1783.1

Sonnerat, *P.*, & **Meunier,** *V.* Sur quelques poissons de l'Ile-de-France, qui empoisonnent ceux qui les mangent. Observ. Phys. Hist. Nat. (Rozier), 1774, **3**, 227–229. *Ibid.*, **6**, 76. 1774.1

Sonnini de Manoncourt, *Charles Nicolas Sigisbert* [1751–1812] Histoire naturelle . . . nouvelle edition, accompagnée de notes . . . ouvrage . . . redigé par C. S. Sonnini (Suites 63 vols.) 127 vols. illust. 1799–1808. 8°. 1799.1

—— Voyage dans la Haute- et Basse-Egypte. Paris, 1799. 1799.2

—— Histoire naturelle, générale et particulière des poissons, ouvrage faisant suite à l'Histoire Naturelle générale et particulière, composée par Leclerc de Buffon, et mise dans un nouvel ordre par C. S. Sonnini, avec des notes et des additions. 13 vols. Paris, An XI–XII [1803–04] 77 pls. 8°. 1803.1

This compilation is only a slightly modified reprint of Comte de Lacépède's Histoire Naturelle des Poissons, originally published and frequently reproduced in connection with Buffon's works.

—— Voyage aux îles de Ténériffe, La Trinité, Saint-Thomas . . . pour faire des . . . collections relatives à l'histoire naturelle . . . par A. P. Ledru . . . ouvrage accompagné de notes et d'additions, par M. Sonnini. 2 vols. *See* Ledru, A. P. 1810. 8°.

Sonsino, *Prospero*. Parassiti animali del *Mugil cephalus* e di altri pesci della collezione del museo di Pisa. Atti Soc. Toscana Sci. Nat., Proc. Verb. 1889 (1891), **7**, 253–256. 1891.1

Sophocles, *E. A.* On the difficulty of identifying plants and animals mentioned by ancient Greek authors. Proc. Amer. Acad. Arts Sci., 1857–60, **4**, 407. 1860.1

See also Hoffman, H. A., & Jordan, D. S., 1893.1, and Koraes, A., 1809.1, and Schneider, J. G., 1789.1, *supra*.

Soraluce y Zubizaretta, *Nicolás de.* Introducción, capitulo i y ortas descripciónes de la memoria acerca del origen y curso de las pescas y pesquerias de ballenas y de bacalaos así que sobre el descubrimento de los bancos i isla de Terranova. Vitoria, 1878. 52 p. 8°. 1878.1

Sørensen, *William Emil* [1848 —] On the apparatus of sound in some South American fishes. Ann. Mag. Nat. Hist., 1879, 5. ser. **4**, 99–100. 1879.1

—— Sur l'appareil du son chez divers poissons de l'Amérique du Sud. C. R. Acad. Sci. Paris, 1879, **88**, 1042–1043. 1879.2

—— Sounds produced by fishes. Pop. Sci. Rev., 1879, n. s. **3**, 332–333. 1879.3

—— Om oppustningssækken hos Tetrodon [*T. fahaka* Hasselquist] og aandedrættet hos Clarias [*C. macracanthus* Gthr.] Naturhist. Tidsskr. Kjøbenhavn 1881 (1883), **13**, 379–414. pl. 1883.1

—— Om lydorganer hos fiske. En physiologisk og comparativ-anatomish undersogelse. Kjøbenhavn, 1884. viii, 245 p. 4 pls. 8°. Inaug. Dissert. 1884.1

—— Om forbeninger i svømmeblæren, pleura og aortas væg og sammensmeltning deraf med hvirvelsøjlen særlig hos Siluroiderne, samt de saakaldte Weberske knoglers morfologi. Vidensk. Selsk. Skr. Naturv., 1890, 6. ser. **6**, 67–152. 3 pls. 1890.1

Danish, with French résumé.

—— Are the extrinsic muscles of the air-bladder in some Siluridæ and the "elastic spring" apparatus of others subordinate to the voluntary production of sounds? What is, according to our present knowledge, the function of the Weberian ossicles? A contribution to the biology of fishes. Journ. Anat. Physiol. London, 1895, **29**, 109–139; 205–229; 399–423; 518–552. 14 figs. 1895.1

—— Some remarks on Dr. Thilo's memoir on "Die Umbildungen an den Gliedmassen der Fische." Morphol. Jahrb., 1897, **25**, 170–189. 1897.1

Soubeiran, *Jean Léon* [1827–1892] Note on the cultivation of eels. Ann. Mag. Nat. Hist., 1865, 3. ser. **16**, 384. 1865.1

—— Note sur l'éducation des anguilles. C. R. Acad. Sci. Paris, 1865, **61**, 424–425. 1865.2

—— De la colle de poisson et de sa falsification. Journ. Pharm., 1866, **4**, 326–330. 1866.1

—— Exposition internationale de produits et engins de pêche de Bergen (Norvége) août 1865. Bull. Soc. Acclim. Paris, 1866, 2. sér. **3**, 189–206; 262–271; 317–333; 381–403; 461–484; 525–541. 38 figs. Also separate; Paris, 1866. 108 p. 8°. 1866.2

—— Les huîles de poisson. Paris, 1867. 12 p. 8°. 1867.1

Extrait de la publication spéciale sur l'Exposition Universelle de 1867 par la Société Impériale Zoologique d'Acclimatation.

—— Rapport sur l'exposition des produits de pêche de la Haye en 1867. Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 449–459; 497–505; 561–591. 1869.1

—— Beretning om laxens aklimatisation i Tasmanien. Tidskr. Fiskeri, 1870, **5**, 100–110. 1870.1

—— La pêche du hareng. Ann. Soc. Linn. Départ. Maine-et-Loire, 1870, 12. année, 170–190. 1870.2

—— Pisciculture dans les Neilgherries (Indes) Bull. Soc. Acclim. Paris, 1870, 2. sér. **7**, 352–361. 1870.3

—— Rapport sur l'acclimatation du saumon en Tasmanie. Bull. Soc. Acclim. Paris, 1870, 2. sér. **7**, 185–191. 1870.4

—— Pisciculture dans l'Amérique du Nord. Bull. Soc. Acclim. Paris, 1871, 2. sér. **8**, 1–24. 1871.1

—— Rapport sur les expositions internationales de pêche de Boulogne-sur-Mer, Arcachon et du Havre (1866–1868) Bull. Soc. Acclim. Paris, 1871, 2. sér. **8**, 81–117; 168–218; 304–347; 401–458. 1871.2

—— La pisciculture chez les divers peuples (In Dabrey de Thiersant, P. La pisciculture et la pêche en Chine, p. 7–112. Paris, 1872. 8°) 1872.1

—— La pisciculture et la pêche en Chine . . . précedé d'une introduction sur la pisciculture chez les divers peuples, par . . . L. Soubeiran. *See* Dabry de Thiersant, P. Paris, 1872. 173 p. illust. 8°.

—— Det hollandske sildefiskeri. Tidsskr. Fiskeri, 1873, **7**, 149–162. 1873.1

Soubeiran, *J. Léon,* & **Moquin-Tandon,** *Gaston. See* **Moquin-Tandon & Soubeiran.**

Souchu de Rennefort. *See* **Rennefort,** *Souchu de.*

Soudakèvicz, *Théodore.* Notice sur le progrès de la pisciculture en Russie. Ministère des Domains, Russie. St. Pétersbourg, 1873. 27 p. 4°. 1873.1

—— Report on the progress of pisciculture in Russia. Rept. U. S. Fish Comm. 1872–73 (1876), **2**, 493–513. 1876.1

Souleyet, *F. L. A.*, & **Eydoux,** *J. F. T.* *See* **Eydoux** & **Souleyet.**

South, *John Flint* [1797–1882] Zoology [General physiology and anatomy and vertebrata] Encyclopedia Metropolitana, etc., vol. vii, p. 15–25. 1817–45. 4.° 1817.1

Southwell, *Thomas* [1831–1909] Greenland shark [*Squalus borealis*] off the Suffolk coast. Zoologist, 1875, 2. ser. **10**, 4424. 1875.1

—— Notes on the herring fishery [from 1881 until 1893] Trans. Norfolk Norwich Nat. Soc., 1879–84, **3**, 369; 539; 644. *Ibid.*, 1884–89, **4**, 74; 239; 374; 476; 682. *Ibid.*, 1889–94, **5**, 89; 211; 310; 403; 578. 1879.1

—— Rare fish on the Norfolk and Suffolk coast. Zoologist, 1879, 3. ser. **3**, 491–492. 1879.2

—— The deal fish at Holkham bay, Norfolk. Sci. Gossip, 1880, **16**, 40. 1880.1

—— The deal fish [*Regalecus banksii*] near Whitby. Sci. Gossip, 1880, **16**, 116. 1880.2

—— On the occurrence of the deal fish on the Norfolk coast. Zoologist, 1880, 3. ser. **4**, 15–18. — Trans. Norfolk Norwich Nat. Soc., 1879–84, **3**, pt. 1, 95. 1880.3

—— Notes on the English herring fishery of 1882. Bull. U. S. Fish Comm. 1883, **3**, 465–466. 1883.1

—— Further notes on the smelt fishery in the Norfolk waters. Trans. Norfolk Norwich Nat. Soc., 1884–89, **4**, 481. 1884.1

—— Notes on some ancient customs and regulations with regard to the freshwater fisheries of the county of Norfolk. Trans. Norfolk Norwich Nat. Soc., 1884–89, **4**, 481. 1884.2

—— On the smelt fisheries in the Norfolk waters. Trans. Norfolk Norwich Nat. Soc., 1884–89, **4**, 338. 1884.3

—— The reproduction of the eel. Naturalist, 1885, **10**, 217–222. 1885.1

—— A gossip about eels. Longman's Mag., Nov., 1892, no. 121. 1892.1

—— About pike. Gentleman's Mag., May, 1893. 1893.1

—— Further notes on the reproduction of the common eel, *Anguilla vulgaris.* Trans. Norfolk Norwich Nat. Soc., 1894–99, **6**, 262–268. 1894.1

—— Thresher shark and angel-fish at Lowestoft. Zoologist, 1897, 4. ser. **1**, 475. 1897.1

—— Lowestoft fish-wharf. Zoologist, 1901, 4. ser. **5**, 21–24. 1901.1

—— (*editor*) Notes and letters on the natural history of Norfolk, more especially on the birds and fishes. From the MSS. of Sir Thomas Browne, M.D. (1605–1682), in the Sloane collection. With notes by T. Southwell. xxvi, 102 p. with facsimile. 1902. 1902.1

Notes on the fishes of Norfolk, p. 31–56.

—— On a hermaphrodite example of the herring (*Clupea harengus*) Ann. Mag. Nat. Hist., 1902, 7. ser. **9**, 195–196. 1902.2

—— The sawfish (*Pristis antiquorum*) in British waters. Zoologist, 1902, 4. ser. **6**, 114. 1902.3

—— Fauna and flora of Norfolk. Additions to part IV, Fishes (fifth list) Trans. Norfolk Norwich Nat. Soc., 1904, **7**, 741–743. 1904.1

—— A description of a large ray, *Tæniura melanospiles* Bleeker, from the Ceylon pearl banks. Reports Ceylon Marine Lab., 1910, **1**, pt. 4, 185–186. 1910.1

—— A descriptive note on the capture of a large sawfish (*Pristis cuspidatus*) containing intra-uterine embryos. Spolia Zeylanica, 1910, **6**, pt. 24, 137–139. pl. 1910.2

—— On the relation of certain predatory fish to pearl oysters (*Margaritifera vulgaris*) on the Ceylon pearl banks. Reports Ceylon Marine Lab., 1910, **1**, pt. 4, 175–178. 10 figs. 1910.3

Southwell, *Thomas*, & **Seymour-Sewell,** *R. B.* *See* **Seymour-Sewell** & **Southwell.**

Southwick, *J. M. K.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S.

Southwick, *J. M. K.* Fish Comm. 1871–72 (1873), **1**, 10–11. 2 figs. 1873.1

—— The appearance of sharks, squid, menhaden and frost fish. Bull. U. S. Fish Comm. 1885, **5**, 358. 1885.1

—— Our ocean fishes and the effect of legislation upon the fisheries. Bull. U. S. Fish Comm. 1893 (1894), **13**, 39–45. 1894.1

Sowinsky, *W.* Introduction à l'étude de la faune du bassin marin Ponto-Aralo-Kaspien sous le point de vue d'une province zoo-géographique indépendante. Mém. Soc. Nat. Kiev, 1904, **18**, 216–487. 1904.1

Soxleth, *F.*, & **Petersen,** *P.* Ueber die Zusammensetzung des Knorpels von Haifisch. Journ. Prakt. Chem., 1873, **115**, 179–181. 1873.1

Spackman, *W. H.* Trout in New Zealand. Where to go and how to catch them. Wellington, 1892. ii, 99 p. 3 pls. 8°. 1892.1

Spaeth, *R. A.* The mechanism of the contraction in the melanophores of fishes. Anat. Anz., 1913, **44**, 520–524. 3 figs. 1913.1

—— The physiology of the chromatophores of fishes. Journ. Exper. Zool. Philad., 1913, **15**, 527–585. 4 pls. 1913.2

—— The physiology of the chromatophores of fishes. Arch. Fisiol. Firenze, 1914, **12**, 103. 1914.1

Direct responses to salt solutions.

Spall, *P. W. A. van.* Rapport omtrent hetgeen er van regeerings-wege kan worden gedaan, om langs het geheele Noorderstrand (van Java) het aanleggen van vischvijvers te bevorderen. Batavia, 1864. 2 pls. 8°. 1864.1

—— Onderzoek omtrent het aanleggen van Zout- en Zoetwater vischvijvers op Java. Tijdsschr. Nijverheid. Nederl. Indie, 1865, **11** (n. s. **6**), 1–93. 1865.1

Spallanzani, *Lazaro* [1729–1799] Viaggi alle due Sicilie, etc. 6 vols. Pavia, 1772–97. 1772.1

Contains observations on fishes.

—— Lettera al marchese Lucchesini sulle torpedini osservate a Chioggia ed a Rovigno, relativamente alla scossa elettrica ed al loro effeto. Opusc. Scelt., Milano, 1783, **6**. 1783.1

—— Lettera sulla fecondazione artifiziale e sull' elettricità delle torpedini. Opusc. Scelt., Milano, 1783, **6**. 1783.2

—— Sur la torpille. Journ. Phys. (Rozier), 1783, **23**, 217–220. 1783.3

—— Ueber die künstliche Befruchtung der Thiere und die Natur der Zitterfische. Mag. Neueste Phys. Naturgesch. (Liehtenberg & Voigt), 1783, **2**, pt. 3, 89–94. 1783.4

—— On the digestive organs and digestion of fishes (In his Dissertations relative to the natural history of animals and vegetables, vol. i, p. 123–129. London, 1784. 8°) 1784.1

This work was first published in Italian at Modena, 1776, and republished at Venice, 1782. A French translation also passed through two editions, 1777 and 1787.

—— Opuscoli due sopra le anguille, dove singolarmente si ragiona di quelle che si pescano nelle valli di Comacchio. Pavia, 1797. 8°. 1797.1

—— Mémoires sur la respiration, traduits en français d'après un manuscript inédit par Sénébier. Genève, 1803. 8°. 1803.1

—— Sopra le anguille. 3 pts. Milano, 1826. 1826.1

—— Delle rondini, delle anguille, dei pipistrelli. Venezia, 1832. 12°. 1832.1

Spangenberg, —— Zur Naturgeschichte des Aales. Journ. Landwirthschaft., 1876, 24. Jahrg. 1876.1

Spangler, *A. M.* The decrease of food-fishes in American waters and some of the causes. Bull. U. S. Fish Comm. 1893 (1894), **13**, 21–35. 1894.1

Spannagel, —— Verzeichniss der Fische der bayerischen Rheinpfalz. 16. & 17. Jahresber. Polichia, Neustadt-a.-H., 1859, 26. 1859.1

Spariani, *Augusto.* Note sui pesci del lago Trasimeno. Esposiz. Internaz. Pesca in Berlino, 1880 (Italiana, Catalogo Sezione), 59–60. 1880.1

Sparrman, *Anders* [1748–1820] Resa till Goda Hopps-Udden, Södra Pol-Kretsen och omkring Jordklotet . . . åren 1772–1776. 2 vols. Stockholm, 1783. 8°. 1772.1

—— Voyage to the cape of Good Hope. 2 vols. London, 1785. 1785.1

A French translation in two volumes was published at Paris in 1787. Contains observations on fishes.

Speedy, *Tom.* Do trout purify or pollute water? Trans. Edinburgh Field Natural. Micr. Soc., 1896, **3**, 126–130. 1896.1

—— Glimpses of trout. Trans. Edinburgh Field Natural. Micr. Soc., 1896, **3**, 138–145. 1896.2

Speer, *L.* Fish swallowing fish. Forest & Stream, 1879, **13**, 866. 1879.1

Speir, *Francis,* **Scott,** *William Berryman,* & **Osborn,** *Henry Fairfield. See* **Osborn, Scott & Speir.**

Spemann, *Hans.* Ueber experimentell erzeugte Doppelmissbildungen mit cyklopischem Defekt. Zool. Jahrb. (*Suppl.*), 1904, **7**, Festschr. Weismann. 1904.1

Spencer, *Herbert* [1820–1903] Genesis of the vertebrate column (correction of citation of W. K. Brooks) Nature, 1900, **62**, 620. 1900.1

Spencer, *L. B.* Balanced aquaria. 5. Ann. Rept. Fish. Game & Forests N. Y. 1899 (1900), 275–278. pl. 1900.1

—— The care of balanced aquaria. Bull. N. Y. Zool. Soc., 1903, 84–87. 1903.1

—— Treatment of fungus on fishes in captivity. Bull. U. S. Fish Comm. 1908 (1910), **28**, pt. 2, 929–932. 1910.1

Spencer, *O. M.* The fisheries of Australasia in 1882. Rept. U. S. Fish Comm. 1883 (1885), **13**, 1186–1188. 1885.1

Spencer, *Walter Baldwin* [1860 —] The pineal eye of *Mordacia mordax.* Proc. Roy. Soc. Victoria, 1890, 2. ser. **2**, 102–105. fig. 1890.1

—— Note on the habits of *Ceratodus forsteri.* Proc. Roy. Soc. Victoria, 1892, 2. ser. **4**, 81–84. 1892.1

—— A trip to Queensland in search of Ceratodus. Victorian Nat., Melbourne, June 10, 1892. 1892.2

—— Contributions to our knowledge of Ceratodus. I. The blood vessels (In Macleay Memorial Volume, Linn. Soc. N. S. Wales, 1893, 1–34. 5 pls. 1893) 1893.1

—— (*editor*) Report on the work of the Horn scientific expedition to central Australia. Edited by Baldwin Spencer. 4 parts. London & Melbourne, 1896. 1896.1

Pt. ii, Zoology. iv, 431 p. 29 pls. Pisces, by A. Zietz, p. 176–180.
Appendix: Description of an additional new species of fish from the Finke and Barcoo rivers, by A. Zietz.

—— Der Bau der Lungen von Ceratodus und Protopterus (In Zoologische Forschungsreisen in Australien und dem malayischen Archipel, ausgeführt in den Jahren 1891–1893 von Richard Semon, Bd. i, pt. 2, p. 51–58. 2 pls. Jena, 1898. 4°) 1898.1

—— Anatomy of *Amphiptyches urna* Grube and Wagener. Trans. Roy. Soc. Victoria, 1899, **1**, 138–151. 3 pls. 1899.1

Spencer, *W. Baldwin,* & **Marshall,** *Arthur Milnes. See* **Marshall & Spencer.**

Spengel, *Johann Wilhelm* [1852 —] Die Excretionsorgane von Myxine. Anat. Anz., 1897, **13**, 49–60. 4 figs. 1897.1

—— Semon's Schilderung des Mesonephros von Myxine. Anat. Anz., 1897, **13**, 211–216. 1897.2

—— Ueber die Fortpflanzung des Flussaales. 32. Ber. Oberhess. Ges. Nat. Heilk., 1899, 138–139. 1899.1

—— Ueber Schwimmblasen, Lungen und Kiementaschen der Wirbelthiere. Zool. Jahrb. (*Suppl.*), 1904, **7**, 727–749. 1904.1

—— In Beziehung auf Mund- und Schlundzähne der Elasmobranchier [*Mustelus lævis*] Zool. Anz., 1905, **29**, 332–333. 1905.1

Spengel, *J. W.*, & **Semon,** *Richard. See* **Semon & Spengel.**

Spicer, *William Webb* [1820 (?)–1879] Musical fish. Sci. Gossip 1870 (1871), 57–58. 1871.1

—— The volcano fish [*Arges cyclopum*] Sci. Gossip 1870 (1871), 25. 1871.2

Spieckermann, *A.*, & **Thienemann,** *August.* Ein Beitrag zur Kenntnis der Rotseuche der karpfenartigen Fische. Arch. Hygiene, München, 1911, **74**, 100–141. 1911.1

Spindel, *Isaiah.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 67–70. 1873.1

Spinney, *Benjamin H.* Return to Gloucester of young codfish hatched by the United States Fish Commission in 1879. Bull. U. S. Fish Comm. 1883, **3**, 362. 1883.

Spinola, (*Marchese*) *Massimiliano* [1780–1857] Lettre sur quelques poissons peu connus du golfe de Gênes, addressée à M. Faujas-de-Saint-Fond. Ann. Mus. Hist. Nat., Paris, 1807, **10**, 366–380. pl. 1807.1

—— *Nectanebus fischeri.* Mag. Zool., 1840, pl. 54. 1840.1

Spitzly, *John H.* Acute poisoning by *Trachinus vipera* in Normandy. Brit. Med. Journ., 1910, **2**, 1915–1916. 1910.1

Spitznagel, *Ferd.* Paraergon ad L. H. Bojani anatomen testudinis, cranii vertebratorum animalium comparationem, scilicet piscium, reptilium, avium, mammalium, faciens. Vilnæ, 1821. 4°. 1821.1

Spix, *Johann Baptist von* [1781–1826] Geschichte und Beurtheilung aller Systeme in der Zoologie nach ihrer Entwicklungsfolge, von Aristoteles bis auf die gegenwärtige Zeit. Nürnberg, 1811. 8°. 1811.1

Spix, *Johann Baptist von,* & **Agassiz,** *Louis.* Selecta genera et species piscium quos in itinere per Brasiliam annis 1817–20 . . . peracto collegit et pingendos curavit Dr. J. B. de Spix . . . digressit, descripsit et observationibus anatomicis illustravit Dr. L. Agassiz, præfatus est et edidit itineris socius Dr. C. F. Ph. de Martius (Memoriæ J. B. de Spix) Monachii, 1829–31. xvi, 138 p. & atlas of 101 pls. 1829.1

This work was issued in two parts, the first, consisting of p. 1–82 and the first 48 plates, in 1829 (Isis, 1829, p. 715), the remainder in 1831.

Spix, *Johann Baptist von,* & **Martius,** *C. F. Ph. von.* Reise in Brazilien . . . in . . . 1817 bis 1820 gemacht und beschrieben. 3 Theile & Atlas. München, 1823[–1831] 4° & fol. 1823.1

Theil iii. Geographischer Anhang: Die Pflanzen und Thiere des tropischen America, ein Naturgemälde von C. F. P. von Martius.

—— Travels in Brazil, in . . . 1817–20, etc. [Translated from the German by H. E. Lloyd] 2 vols. London, 1824. illust. 8°. 1824.1

Spoerer, *Julius* [1823–1873] Nowaja Semlä in geographischer, naturhistorischer und volkswirtschaftlicher Beziehung, etc. Petermanns Mitth., 1867, **5**, no. 21. 112 p. 2 maps. 1867.1

Spohrer, —— Hecht und Welse. 53. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1897, **53**, 39–40. 1897.1

Spoof, *Waldemar.* Rudabborre. Meddel. Soc. Fauna Flora Fenn., 1883, **9**, 122. 1883.1

Spreckley, *Harry.* Fish-farming in Scotland. World's Work, 1903, **1**, 540–546. 1903.1

Sprenger, *W.* *Alcordeus aspero.* Blätt. Aquar.-Terrar. Freunde, 1900, 11. Jahrg., 270–272. fig. 1900.1

—— Einiges vom Kalikobarsch. Blätt. Aquar.-Terrar. Kunde, 1900, 11. Jahrg., 103–104. 1900.2

—— Fluss- und Kaulbarsch. Blätt. Aquar.-Terrar. Freunde, 1900, 11. Jahrg., 145–146. pl. 1900.3

—— Die Funktionen der Schwimmblase. Blätt. Aquar.-Terrar. Kunde, 1900, 11. Jahrg., 229–230; 245–246; 257–260; 277–278; 284–286. *Ibid.*, 12. Jahrg., 220–221; 234–235; 275–276; 291–293; 306–308; 328–330. 1900.4

—— Ob Fische hören? Blätt. Aquar.-Terrar. Kunde, 1900, 11. Jahrg., 101–103; 119–120. 1900.5

—— Schlamm- und Steinbeisser. Blätt. Aquar.-Terrar. Freunde, 1900, 11. Jahrg., 121–124. fig. 1900.6

—— Ueber die Rassen des Goldfisches Blätt. Aquar.-Terrar. Kunde, 1900, 11. Jahrg., 169–170; 183–186. pl. 1900.7

—— Ueber Schwertfische. Blätt. Aquar.-Terrar. Kunde, 1900, 11. Jahrg., 113–119. pl. 1900.8

—— *Amia calva,* Schlammfisch. Blätt. Aquar.-Terrar. Kunde, 1901, 12. Jahrg., 190–193. fig. 1901.1

—— Chara-Fisch. Blätt. Aquar.-Terrar. Kunde, 1901, 12. Jahrg., 118. 1901.2

—— Die Forelle. Blätt. Aquar.-Terrar. Kunde, 1901, 12. Jahrg., 125–127. pl. 1901.3

—— Möchte einmal ergebenst anfragen, wie weit die Verbreitung der Stichlinge sich erstreckt? Blätt. Aquar.-Terrar. Kunde, 1901, 12. Jahrg., 308. 1901.4

—— Piratenbarsch? Blätt. Aquar.-Terrar. Kunde, 1901, 12. Jahrg., 65. 1901.5

—— *Lepomis megalotis* und *Lepomis auratus.* Natur u. Haus, 1903, 11. Jahrg., 296–297. 1903.1

Spring, *Edward A.* [Letter read by Mr. Lesley from Mr. Edward A. Spring on a fish caught by a spider] Proc. Acad. Nat. Sci. Philad. 1859 (1860), 255. 1860.1

Springfeld, *A.* Ueber die giftige Wirkung des Blutserums des gemeinen Flussaales. Inaug. Dissert., Greifswald, 1889. 1889.1

Spry, *William James Joseph* [— 1906] The cruise of H. M. S. "Challenger," etc. London, 1876. xviii, 388 p. illust. 8°. 1876.1

—— Notes on fish and fishing in the Bosporus, etc. Fish. Gazette, 1879, **3**, 266–267; 293–294. 1879.1

Spurrell, *H. George F.* The articulation of the vertebrate jaw. Proc. Zool. Soc. London, 1906, **1**, 114–123. 14 figs. 1906.1

Srdinko, *Otakar V.* Studie o histologii a histogenesi chrupavky. Rozpr. České Akad. Tr., 1902, **1**, 1–22. pl. 1902.1

—— Beiträge zur Kenntniss der Nebenniere der Knochenfische. 1903–08. 1903.1

i. Ueber Bau und Entwicklung der Stannius'schen Körperchen der Lophobranchier. Arch Mikr. Anat., 1903, **62**, 773–802. pl. & 2 figs.
ii. Ueber die erste Anlage der Stannius'schen Körperchen der Lophobranchier, *Ibid.*, 1908, **71**, 325–332. pl.

—— Circulation du sang dans les capsules surrénales des vertébrés [Text in Bohemian] Rozpr. Ceské Akad. Císaře Fr. Josefa Vědy, Prag, 1905, **41**, no. 12, 1–44. pl. 1905.1

—— Ueber die Entwicklung der Nebenniere bei den Lophobranchiern [Text in Bohemian] Rozpr. České Akad. Císaře Fr. Josefa Vědy, Prag, 1907, **16**, 1–6. pl. 1907.1

Stabler, *Edward.* Growth and protection of carp from turtles, etc. Bull. U. S. Fish Comm. 1883, **3**, 127–128. 1883.1

Stabrowski, *Xavier von.* Carp culture in Germany. Bull. U. S. Fish Comm. 1886 (1887), **6**, 57–59. 1887.1

—— Fiskskydd om vintern. Fiskeritidskr. Finl., 1894, **3**, 9–11. 1894.1

Stach, *Jan.* Sandacze z "mopsią głową" [Sandats à tête de carlin] Okóln. Tow. Ryb., Kraków, 1906, 9–12. 1906.1

Stacy-Watson, *C.* The silvery hosts of the North sea; with a sketch of "quaint old Yarmouth." London, 1883. 94 p. 8°. 1883.1

—— Varieties and distribution of the herring (*Clupea harengus* Linn.) Trans. Norfolk Norwich Nat. Soc., 1894, **5**, 584–591. 1894.1

Stadelmann, —— Bericht der Direktion des landwirthschaftlichen Centralvereins der Provinz Sachsen an Seine Excellenz den Herrn Minister für die landwirthschaftliche Angelengenheiten über den Erfolge . . . der künstlichen Erzeugung von Forellen. Annal. Landw., 1867, 25. Jahrg., **50**, 210–213. 1867.1

Stadius, *Arthur.* En fiskerifärd till Jauhojärvi. Tidskr. Jägare & Fisk., 1893, 4–42. 1893.1

Stadler, *Hermann.* Bericht über die Litteratur zur antiken Naturgeschichte 1895–1897. Jahresber. Altertumsw., 1903, **114**, 26–82. 1903.1

—— Albertus Magnus von Köln als Naturforscher und das Kölner Autogramm seiner Tiergeschichte. Verh. Ges. Deutsch. Naturf. Aerzte, 80. Vers., 1909, pt. 1, 29–37. 1909.1

Stadler, *J. A.* Die Fische im Zugersee. [n. p.] 1865. 1865.1

This is an unpublished MS. referred to in Förets, Chasse et Pêche, compiled under the direction of J. Coaz. Berne, 1898.

Staff, *Franz.* Produktivität der Karpfen an Eiern. Allgem. Fischerei Zeitg., 1910, **35**, 112–113. 1910.1

—— Mechanika ruchu ryb [Les éléments mécaniques du mouvement des poissons] Wszechświat, Warszawa, 1911, **30**, 641–647; 659–663. 1911.1

Stafford, *J.* Notes on worms. Zool. Anz., 1902, **25**, 481–483. 1902.1

Records *Spathidium folium* (von Olfers) from common bullhead, *Bunodera nodulosa* (Zeder) from brook trout, *Creadium isoporum* (Looss) from chub; they "differ in some respects from the European forms." Other undetermined species noted.

—— Trematodes from Canadian fishes. Zool. Anz., 1904, **27**, 481–495. 1904.1

Records several species from migratory fishes, localities not given; also numerous others from lake and river fishes.

—— Trematodes from Canadian vertebrates. Zool. Anz., 1905, **28**, 681–694. 1905.1

Records *Tetraonchus unguiculatus* Wag. from rock bass and common sunfish; *Cryptogonimus chyli* Osborn from rock bass.

—— Preliminary report on the trematodes of Canadian marine fishes. Ann. Rept. Dept. Mar. Fish Canada, Ottawa, 1907, **39**, 91–94. 1907.1

Stafford, *William.* Some account of the electric fishes. 45. Ann. Rept. Trans. Nottingham Nat. Soc., 1897, 1–11. 1897.1

Stahl, *Augustin.* Fauna de Puerto Rico. San Juan, 1883. 1883.1

Stahl, *Heinrich.* Erspriessliches in der Danio-Zucht zu erzielen. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 303–304. 1910.1

Stahl, *J. F.* (*editor*) Onomatologia forestalis-piscatorio-venatoria. Oder vollständiges Forst,- Fisch- und Jagd-Lexicon, etc. (Onomatologiæ . . . supplementum, oder Beyträge und Verbesserungen . . . Verfertigt und herausgegeben von J. F. Stahl) 4 pts. Frankfurt, Leipzig & Stuttgart, 1772–80. 8°. 1772.1

The 4th volume, printed at Stuttgart in 1780, contains the supplement by J. F. Stahl.

Stahmer, *Max.* Fischhandel und Fischindustrie. Stuttgart, 1913. vii, 368 p. illust. 8°. 1913.1

Stahr, *Hermann.* Zur Funktion der Seitenorgane. Eine Beobachtung an chinesichen Zierfischen. Biol. Centralbl., 1897, **17**, 273–282. 1897.1

Stainier, *X.* Un Spiraxis nouveau du Dévonien belge. Bull. Soc. Belge Géol., 1894, **8** (*Mém.*), 23–28. 1894.1

—— Paléontologie animale [poissons] (In his Stratigraphie du bassin houiller de Liége. Bull. Soc. Belge Géol., 1905, **19**, 95–99) 1905.1

Stalio, *Luigi.* Sullo *Schedophilus botteri* Heckel, n. sp. Atti R. Istit. Venet., 1879–80, 5. ser. **6**, 905–911. pl. Also separate; Venezia, 1880. 8°. 1879.1

Stanford, *Edward Charles C.* The sea-fishing industry of England and Wales [London] 1864. 406 p. 77 figs. 1864.1

—— Iodine in cod liver oil. Pharmac. News, 1884. 1884.1

Stang, *C.* Die Pflege, Haltung und Zucht der Cichliden (*Acara cœruleo-punctata* var. *latifrons*, *Hemichromis bimaculatus*, *Cichlasoma nigrofasciatum* und *Etroplus maculatus*) Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 825–828. 5 figs. 1913.1

Stange, *J.* Fish becoming blue and rigid during transportation. Bull. U. S. Fish Comm. 1886 (1887), **6**, 64. 1887.1

Stanley, (*Sir*) *Henry M.* [formerly **Rowlands,** *John*] [1841–1904] Afrikanische Fische. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 51–52. pl. — Erste Öster.-ungar. Fischerei Zeitg., 1880, 28–29. pl. 1880.1

—— In darkest Africa; or, the quest, rescue and retreat of Emin, governor of Equatoria, etc. (Appendix) 2 vols. London, 1890. illust. 8°. 1890.1

Stannius, *Friedrich Hermann* [1808–1883] Symbolæ ad anatomiam piscium. Rostockii, 1839. 40 p. 4°. 1839.1

—— Ueber Nebennieren bei Knochenfischen. Arch. Anat. (Müller), 1839, 97–101. 1839.2

—— Ueber die männlichen Geschlechtstheile der Rochen und Haien. Arch. Anat. (Müller), 1840, 41–43. 1840.1

—— Ueber das Gebiss des Lamna. Arch. Anat. (Müller), 1842, 388–389. 1842.1

—— Ueber das peripherische Nervensystem des Dorsch, *Gadus callarias.* Arch. Anat. (Müller), 1842, 338–366. 1842.2

—— Ueber die Knochen des Seitencanales der Fische. Notizen (Froriep), 1842, **22**, 97–100. 1842.3

—— Ueber den Bau des Gehirnes des Störs. Arch. Anat. (Müller), 1843, 36–44. fig. 1843.1

—— Bemerkungen über das Verhältniss der Ganoïden zu den Clupeoiden, insbesondere zu Butirinus. Rostock, 1846. 20 p. 8°. 1846.1

—— Lehrbuch der vergleichenden Anatomie der Wirbelthiere. Berlin, 1846. 1846.2

—— Zootomie der Fische. Berlin, 1846. 1846.3

2. ed. Berlin, 1854. 8°.

—— Ueber das Pancreas der Fische. Arch. Anat. (Müller), 1848, 405–407. 1848.1

—— Das peripherische Nervensystem der Fische, anatomisch und physiologisch untersucht. Rostock, 1849. 156 p. 5 pls. 4°. 1849.1

—— Ueber die Deckknochen und die integrirenden Ossificationen der Wirbel einiger Knochenfische. Arch. Anat. (Müller), 1849, 533–542. pl. 1849.2

—— Ueber eine der Thymus entsprechende Drüse bei Knochenfischen. Arch. Anat. (Müller), 1850, 501–507. 1850.1

—— Ueber den Bau der Muskeln bei *Petromyzon fluviatilis.* Nachricht. Univ. Göttingen, 1851, 225–235. — L'Institut, **20**, 132–134. 1851.1

—— Ueber die Muskelfasern des Herzens von Petromyzon. Zeitschr. Wiss. Zool., 1853, **4**, 252. 1853.1

Stannius, *Hermann,* & **Siebold,** *Carl Theodor Ernst von. See* **Siebold & Stannius.**

Stansch, *Karl.* Zur Fortpflanzung von *Barbus ticto.* Wochenschr. Aquar.-Terrar. Kunde, 1904, 1. Jahrg., 82. 1904.1

—— Die Barben und die den Barben verwandten Arten. Braunschweig, 1906. 35 p. 8 figs. 8°. 1906.1

—— Der Makropode oder Grossflösser. Braunschweig, 1907. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 2) 1907.1

—— *Pœcilia caucana* Steind., ein neuer lebendgebärender Zahnkarpfen. Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 153–154. fig. 1907.2

—— Einiges über Haplochilus-Arten und Varietäten. Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 77–79. fig. 1908.1

—— Meine Beobachtungen an Haplochilus-Arten und Väriatäten. Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 175–176. 1908.2

—— Die eigebärenden Zahnkarpfen (Cyprinodontidæ oviparæ) I. Teil. Braunschweig, 1909. 42 p. 2 figs. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 16) 1909.1

—— Einiges über *Trichogaster lalius.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 297–298. fig. 1909.2

—— Die Labyrinthfische. Braunschweig, 1909. 35 p. pl. & 8 figs. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 19) 1909.3

—— *Osphromenus trichopterus* (Pall.) Gthr. und *Trichogaster fasciatus* Bl. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 489–490. 2 figs. 1909.4

—— Ueber die Entwicklung des Laiches der eigebärenden Zahnkarpfen. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 365–366. 3 figs. 1909.5

—— Einheimische Fische für das Süsswasseraquarium. Teil i, ii. Braunschweig, 1910. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 6, 7) 1910.1

—— *Gambusia nicaraguensis* und die "Gambusenfrage." Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 1–3. 4 figs. 1910.2

—— *Haplochilus rubropictus.* Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 469–470. fig. 1910.3

—— *Hemirhamphus fluviatilis* Bleek., der halbschnäbelige Hecht. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 641–642. fig. 1910.4

—— *Rasbora cephalotænia* Bleek. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 357–358. fig. 1910.5

—— Der Schleierfisch und die übrigen Abarten des Goldfisches. Braunschweig, 1910. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 5) 1910.6

—— Die Barben und die den Barben verwandten Arten. Braunschweig, 1911. 35 p. 8 figs. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 3) 1911.1

—— *Barbus fasciolatus* (?) Günther. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 117–118; 141. fig. 1911.2

—— Die Characiniden. Braunschweig, 1911. 41 p. pl. & 18 figs. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 21) 1911.3

—— Die Fischkrankheiten, ihre Ursachen und Heilung. Braunschweig, 1911. 23 p. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 11) 1911.4

—— *Hemigrammus unilineatus.* Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 107–108. fig. 1911.5

—— Die lebengebärenden Zahnkarpfen (Cyprinodontidæ viviparæ) II. Teil. 4. ed. Braunschweig, 1911. 48 p. illust. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 23) 1911.6

—— Meine Erfahrungen in der Zucht des Scheibenbarsches. *Mesogonistius chætodon* (Gill) Baird. Wochenschr.

Stansch, *K.*
Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 705. 1911.7

—— *Platypœcilus maculatus* Gthr. und seine Varietäten. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 402–404. 6 figs. 1911.8

—— *Pœcilia dovii* Gthr. Ein neuer schwarzgescheckter Karpfling. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 633–634. fig. 1911.9

—— *Polyacanthus cupanus* var.? Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 17–18. fig. 1911.10

—— Der Sonnenfisch, *Eupomotis gibbosus* L., im Aquarium und Freilandbassin. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 719–720. pl. 1911.11

—— Die westafrikanischen Fundulus-Arten. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 422. 1911.12

—— Die eigebärenden Zahnkarpfen (Cyprinodontidæ oviparæ) II. Teil. Braunschweig, 1912. 38 p. pl. & figs. 16° (Bibliothek für Aquarien- und Terrarienkunde, Heft 24) 1912.1

—— *Mesonauta insignis* Gthr. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 179–180. fig. 1912.2

—— Plecostomus. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 634–635. 4 figs. 1912.3

—— *Pyrrhulina filamentosa* Cuv. u. Val. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 225. pl. 1912.4

—— Der Schwarzbarsch, *Micropterus dolomieu* Lacep. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 367. fig. 1912.5

—— Drei neue Characiniden. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 393–394. 2 figs. 1913.1

—— Glasbarsche (Ambassis) Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 137–138. 2 figs. 1913.2

—— Kugelfische. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 101–102. 4 figs. 1913.3

—— *Monocirrus polyacanthus* Müll. & Trosch. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 209–210. fig. 1913.4

—— Die *Pœcilia sphenops*-Gruppe. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 545–546. 6 figs. 1913.5

—— Die lebendgebärenden Zahnkarpfen (*Cyprinodontalis viviparæ*) III. Teil, Gattung Pœcilia. Braunschweig, 1914. 35 p. pl. & 23 figs. 8°. 1914.1

—— Ueber die Zucht von *Acara thayeri*. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 13–14. fig. 1915.1

Stappers, *Louis.* Notes sur la nourriture de quelques vertébrés arctiques. Ann. Soc. Roy. Malac. Belgique, 1910, **44**, 31–39. 1910.1

Staring, *E. H.*, & **Bayliss,** *W. M.* *See* **Bayliss & Staring.**

Stark, *James.* On the changes of colour in various fishes, in consequence of their being kept in water contained in vessels of different colours. Proc. Zool. Soc. London, 1830, **1**, 88. — Edinburgh New Phil. Journ., 1830, **21**, 327–331. — Isis (Oken), 1832, **9**, 923–934. 1830.1

—— On the existence of an electrical apparatus in the flapper skate and other rays. Proc. Roy. Soc. Edinburgh, 1844–50, **2**, 1–3. Abstract in Nuovi Ann. Sci. Nat., **5**, 49. — Ann. Mag. Nat. Hist., **15**, 121. 1844.1

—— On the existence of an osseous structure in the vertebral column of cartilaginous fishes. Trans. Roy. Soc. Edinburgh, 1844, **15**, 643–656. figs. Abstract in Quart. Journ. Geol. Soc. London, **1**, 143–144. — Proc. Roy. Soc. Edinburgh, **1**, 463–465. 1844.2

Stark, *John.* Elements of natural history . . . containing the generic characters of nearly the whole animal kingdom and descriptions of the principal species. 2 vols. Edinburgh & London, 1828. illust. 8°. 1828.1

—— On the food of the vendace (*Coregonus marænula* Jard.) herring and salmon. Ann. Mag. Nat. Hist., 1837, **1**, 74. 1837.1

—— On the food of the herring and salmon. Proc. Roy. Soc. Edinburgh, 1840–44, **1**, 170–171. 1840.1

Starkloff, *Carl.* Fundulus-Kreuzungen. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 179–181. 1913.1

Starks, *Edwin Chapin* [1867 —] Description of a new genus and species of

cottoid fishes from Puget sound. Proc. Acad. Nat. Sci. Philad. 1895 (1896), 410–412. 1896.1

—— List of fishes collected at Port Ludlow, Wash. Proc. Calif. Acad. Sci., 1896, 2. ser. **6**, 549–562. 2 pls. 1896.2

—— The osteological characters of the genus Sebastolobus. Proc. Calif. Acad. Sci., 1898, 3. ser. **1**, 361–370. 3 pls. 1898.1

—— The osteology and relationships of the family Zeidæ. Proc. U. S. Nat. Mus., 1898, **21**, 469–476. 6 pls. 1898.2

—— The osteological characters of the fishes of the suborder Percesoces. Proc. U. S. Nat. Mus., 1899, **22**, 1–10. 3 pls. 1899.1

—— The osteology and relationships of the percoidean fish, *Dinolestes lewini*. Proc. U. S. Nat. Mus., 1899, **22**, 113–120. 4 pls. 1899.2

—— Synonymy of the fish skeleton. Proc. Washington Acad. Sci., 1901, **3**, 507–539. 3 pls. & 2 figs. 1901.1

—— The relationship and osteology of the caproid fishes or Antigoniidæ. Proc. U. S. Nat. Mus., 1902, **25**, 565–572. 3 figs. 1902.1

—— The shoulder girdle and characteristic osteology of the hemibranchiate fishes. Proc. U. S. Nat. Mus., 1902, **25**, 619–634. 6 figs. 1902.2

—— The osteology of *Dallia pectoralis*. Zool. Jahrb. (*Abth. Syst.*), 1904, **21**, 249–262. 2 figs. 1904.1

—— The osteology of some berycoid fishes. Proc. U. S. Nat. Mus., 1904, **27**, 601–619. 10 figs. 1904.2

—— A synopsis of characters of some fishes belonging to the order Haplomi. Biol. Bull. Woods Hole, 1904, **7**, 254–262. 1904.3

—— The osteology of *Caularchus mæandricus* (Girard) Biol. Bull. Woods Hole, 1905, **9**, 292–303. 2 figs. 1905.1

—— Some notes on the myodome of the fish cranium. Science, 1905, n. s. **21**, 754–755. 1905.2

—— On a collection of fishes made by P. O. Simons in Ecuador and Peru. Proc. U. S. Nat. Mus., 1906, **30**, 761–800. 2 pls. & 10 figs. 1906.1

—— On the relationship of the fishes of the family Siganidæ. Biol. Bull. Woods Hole, 1907, **13**, 211–218. fig. 1907.1

—— The characters of Atelaxia, a new suborder of fishes (In Reports on the scientific results of the expedition to the eastern tropical Pacific in charge of Alexander Agassiz, by the U. S. Fish Commission steamer "Albatross," from October, 1904, to March, 1905, Lieutenant-Commander L. M. Garrett, U. S. N., commanding. XIII. Bull. Mus. Comp. Zool. Harv. Coll., 1908, **52**, 17–22. 5 pls.) 1908.1

—— On a communication between the air-bladder and the ear in certain spiny-rayed fishes. Science, 1908, n. s. **28**, 613–614. 1908.2

—— On the orbitosphenoid in some fishes. Science, 1908, n. s. **28**, 413–415. 1908.3

—— The scombroid fishes. Science, 1909, n. s. **30**, 572–574. 1909.1

—— The osteology and mutual relationships of the fishes belonging to the family Scombridæ. Journ. Morphol., 1910, **21**, 77–99. 3 pls. & 2 figs. 1910.1

—— The air bladder in *Clupea harengus*. Science, 1911, n. s. **34**, 638. 1911.1

—— On a posterior communication of the air-bladder with the exterior in fishes. Science, 1911, n. s. **34**, 496. 1911.2

—— The osteological characters of the scombroid fishes of the families Gempylidæ, Lepidopidæ and Trichiuridæ. Leland Stanford Univ. Public., 1911, no. 5, 17–26. 2 pls. 1911.3

—— The osteology and relationship of Leiognathus, a genus of scombroid fishes. Leland Stanford Junior Univ. Public., 1911, no. 5, 1–15. fig. 1911.4

—— The osteology and relationship of the fishes belonging to the family Carangidæ. Leland Stanford Univ. Public., 1911, no. 5, 27–49. 1911.5

—— A possible line of descent of the gobioid fishes. Science, 1911, n. s. **33**, 747–748. 1911.6

—— Results of an ichthyological survey about the San Juan islands, Washington. Ann. Carnegie Mus., 1911, **7**, 162–213. 3 pls. & 9 figs. 1911.7

Starks, *E. C.*

—— The fishes of the Stanford expedition to Brazil. Leland Stanford Univ. Public., 1913. 77 p. 15 pls. 1913.1

—— The sesamoid articular, a bone in the mandible of fishes. Leland Stanford Junior Univ. Public., 1916, 1–40. 15 figs. 1916.1

Starks, *Edwin Chapin,* & **Gilbert,** *Charles H. See* **Gilbert** & **Starks.**

Starks, *Edwin Chapin,* & **Jordan,** *David Starr. See* **Jordan** & **Starks.**

Starks, *Edwin Chapin,* & **Mann,** *William M.* New and rare fishes from southern California. Univ. Calif. Publ. Zool., 1911, **8**, 9–19. 2 figs. 1911.1

Starks, *Edwin Chapin,* & **Morris,** *Earl Leonard.* The marine fishes of southern California. Univ. Cal. Publ. Zool., 1907, **3**, 159–252. pl. 1907.1

Starks, *Edwin Chapin,* & **Thompson,** *William Francis.* A review of the flounders belonging to the genus Pleuronichthys. Proc. U. S. Nat. Mus., 1910, **38**, 277–287. 1910.1

Stasi, *Paolo Emilio,* & **Regalia,** *E.* Grotta Romanelli (Castro, Terra d' Otranto) Stazione con faune interglaciali calda e di steppa. Arch. Antropol. Etnol., 1904, **34**, 17–81. pl. *Ibid.*, 1905, **35**, 113–172. 1904.1

Stassano, *E.* La pesca sulle spiagge atlantiche del Sahara. Ann. Agricoltura, 1890. 103 p. 1890.1

Pesci, p. 61–103.

Stassano, *Henri.* Nouvelles recherches physiologiques sur la torpille. C. R. Acad. Sci. Paris, 1883, **96**, 1436–1439. 1883.1

Staudenmayer, *G.* Der Aalfang, eine Mahnung an die Donaufischer. Allgem. Fischerei Zeitg., 1893, **18**, no. 16, 243–245. 1893.1

Staudinger, *Jul. von.* Aus dem Gebiete des Fischereirechts. Bayer. Fischerei Zeitg., 1880, 5. Jahrg., 62–66; 73–77; 112–115. 1880.1

—— Anleitung zum Fischen in Waldgewässern. Berlin, 1896. 92 p. figs. 8°. 1896.1

Stauffer, *Clinton R.* [1875 —] The middle Devonian of Ohio. Bull. Geol. Surv. Ohio, 1909, 4 . ser. **9**, no. 10. 204 p. 17 pls. 1909.1

Dipterus eastmani, sp. nov.

Stauffer, *Jacob.* [Descriptions of *Ictalurus kevinskii* and *I. macaskeyi* sp. nov.] (In Mombert, — History of Lancaster county, Pennsylvania, p. 578. Philadelphia, 1869) 1869.1

—— *Amia calva* [taken in the Susquehanna river] Amer. Naturalist, 1879, **13**, 525. 1879.1

—— Why Amia lives so long out of water. Chicago Field, 1879, **12**, 4. 1879.2

Stazzi, *Pietro.* Psorospermiosi o mixoboliasi tuberosa dei barbi. Rivist. Mens. Pesca, Milano, 1906, **8**, 14–19. 3 figs. 1906.1

Stead, *David G.* Zoological notes from Sydney. Zoologist, 1900, 4. ser. **4**, 345–357. pl. & fig. 1900.1

—— Contribution to Australian ichthyology. Rept. Fisheries New South Wales, 1903, **2**, 34–35. figs. 1903.1

—— Fishes of Australia. A popular and systematic guide to the study of the wealth within our waters. Vol. I. Sydney, 1906. xii, 278 p. 9 pls. 1906.1

—— Fœtus of *Pristiophorus cirratus.* Zool. Anz., 1906, **30**, 822–823. 1906.2

—— Freshwater perch of the eastern rivers of New South Wales. Proc. Linn. Soc. New South Wales, 1906, **31**, 261–362. 1906.3

—— Additions to the fish-fauna of New South Wales. Sydney, 1907. 27 p. 6 pls. 1907.1

—— Chlamydoselachus in New South Wales. Zool. Anz., 1907, **32**, 303–304. 1907.2

—— Fauna of New South Wales. Zool. Anz., 1907, **31**, 127. 1907.3

—— Note on a small collection of fishes from Suwarow island. Sydney, 1907. 9 p. 2 pls. 1907.4

—— Preliminary note on the wafer (*Leptoplana australis*) etc. Dept. Fisheries, New South Wales, 1907. 8°. 1907.5

—— The edible fishes of New South Wales. Sydney, 1908. 119 p. 81 pls. 8°. 1908.1

—— Fishes as mosquito destroyers in New South Wales. Agric. Gaz. New South Wales, 1908, **18**, 762–764. 1908.2

—— New fishes from New South Wales. No. 1. Sydney, 1908. 12 p. 5 pls. 1908.3

—— A brief review of the fisheries of New South Wales, present and potential. Sydney, 1910. 31 p. 17 pls. 1910.1

—— (*editor*) The aquarium in Australia. Published by the Aquarium Society of New South Wales. Sydney, 1911. 1911.1

Observations on the eggs of our fishes, p. 26. A queer little fish, p. 8.

—— The estuary perch, *Percalates colonorum* (Günther) and the freshwater perch, *P. fluviatilis* Stead. Proc. Linn. Soc. New South Wales, 1911, **35**, 657–659. 1911.2

—— The future of commercial marine fishing in New South Wales. Sydney, 1911. 18 p. pls. 1911.3

—— An account of some experiments in the acclimatisation of two species of Australian freshwater perch. Rept. Austral. Assoc. Adv. Sci., 14. meet., 1914, 279–288. 1914.1

Macquaria australisica and *Percalathes fluviatilis.*

—— A simple device for improving the water circulation in fish ponds. Rept. Austral. Assoc. Adv. Sci., 14. meet., 1914, 288–293. 2 figs. 1914.2

Stead, *F. B.* The fourth report of the Danish biological station: the plaice in Danish waters. Journ. Mar. Biol. Assoc. 1896 (1897), n. s. **4**, 213–218. 1897.1

—— Note on a specimen of *Echinorhinus spinosus.* Journ. Mar. Biol. Assoc. 1896 (1897), n. s. **4**, 264–265. 1897.2

—— Preliminary note on trawling experiments in certain bays on the south coast of Devon. Journ. Mar. Biol. Assoc. 1896 (1897), n. s. **4**, 90–96. 1897.3

—— Variations and relationship of the flounder and the plaice. Journ. Mar. Biol. Assoc. 1896 (1897), n. s. **4**, 293–299. 1897.4

—— Memorandum on the results of investigations into the contents of certain bays on the south coast of Devon. Journ. Mar. Biol. Assoc., 1898, **5**, 322–329. 1898.1

Stearns, *Mary R.* Bibliography of scientific writings of R. E. C. Stearns. Smithson. Misc. Coll., 1911, **56**, no. 18, 15 p. 1911.1

Stearns, *Robert Edwards Carter* [1827–1909] Note on a large specimen of *Orthagoriscus analis* Ayres. Proc. Calif. Acad. Sci., 1867, **3**, 341. 1867.1

—— Fish notes from the Pacific coast. Amer. Naturalist, 1879, **13**, 522–523. — Chicago Field, 1879, **11**, 389. 1879.1

Stearns, *Silas.* Procreation of skates. Forest & Stream, 1878, **10**, 443. 1878.1

—— The submarine volcano off the coast of Florida. Forest & Stream, 1878, **11**, 531. 1878.2

—— A note on the gulf menhaden, *Brevoortia patronus* Goode. Proc. U. S. Nat. Mus., 1879, **1**, 181–182. — Smithson. Misc. Coll., 1880, **19**, art. 1. 1879.1

—— Eating neglected fishes. Forest & Stream, 1880, **15**, 387. 1880.1

—— Fluctuations in the fisheries of the gulf of Mexico, and the proposed investigation of them. Bull. U. S. Fish Comm. 1883, **3**, 467–468. 1883.1

—— On the position and character of the fishing grounds of the gulf of Mexico. Bull. U. S. Fish Comm. 1884, **4**, 289–290. 1884.1

—— Examination of the fisheries in the gulf of Mexico. Bull. U. S. Fish Comm. 1885, **5**, 285–287. 1885.1

—— The fisheries of Pensacola, Fla. Bull. U. S. Fish Comm. 1885, **5**, 245–247. 1885.2

—— Notes on the great dolphin, *Coryphæna hippurus* Linné. Proc. U. S. Nat. Mus., 1885, **8**, 635–636. 1885.3

—— The fisheries of the gulf of Mexico (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 2, p. 533–587. Washington, 1887) 1887.1

—— Notes on the fisheries of Pensacola, Fla. Bull. U. S. Fish Comm. 1886 (1887), **6**, 76–78. 1887.2

—— The red-snapper and Havana market fisheries (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 585–594. Washington, 1887) 1887.3

—— Some of the fisheries of western Florida. Bull. U. S. Fish Comm. 1886 (1887), **6**, 465–467. 1887.4

Stearns, *Winfrid Alden.* Notes on the natural history of Labrador [Fishes]

Stearns, *W. A.* Proc. U. S. Nat. Mus., 1883, **6**, 123–125. 1883.1

—— The Labrador fisheries. Bull. U. S. Fish Comm. 1885, **5**, 6–27. 1885.1

Stebbins, *Barney M.* Result of propagating black bass. Rept. U. S. Fish Comm. 1878 (1880), **6**, 936. 1880.1

Steche, *Otto.* Ueber leuchtende Oberflächenfische aus dem malayischen Archipel. Verh. Deutsch. Zool. Ges., 17. Vers., 1907, 85–92. 1907.1

—— Die Leuchtorgane von *Anomalops katoptron* und *Protoblepharon palpebratus,* zwei Oberflächenfischen aus dem malaiischen Archipel. Ein Beitrag zur Morphologie und Physiologie der Leuchtorgane der Fische. Zeitschr. Wiss. Zool., 1909, **93**, 349–408. 3 pls. & 5 figs. 1909.1

—— Bemerkungen zu dem Aufsatz "Ein interessanter Laichakt des *Pantodon buchholzi*" von H. Siegl. Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 4–5. fig. 1915.1

Steche, *Otto,* **Brehm,** *Alfred,* & **Franz,** *Viktor.* *See* **Brehm, Franz** & **Steche.**

Stechow, *E.,* & **Franz,** *Victor.* *See* **Franz** & **Stechow.**

Stedman, *John Gabriel* [1744–1797] Narrative of a five years' expedition against the revolted negroes of Surinam, in Guiana, on the wild coast of South America, from the year 1772 to 1777: elucidating the history of that country, and describing its productions, viz. quadrupeds, fishes, reptiles, etc. 2 vols. London, 1796. pls. & maps. 4°. 1796.1

Steeg, *Georgius* [1832 —] De anatomia et morphologia squamarum piscium. Inaug. Dissert. Bonnæ, 1857. 43 p. 1857.1

—— Ueber die Schuppen der Fische. Correspbl. Naturh. Rheinl. Westphal., 1861, **18**, 76–78. 1861.1

Steele, *Robert.* Mediæval lore. London, 1893. illust. 8°. 1893.1

This is an epitome of the first printed encyclopædia in the English language, that of the Franciscan scholar Bartholomæus Anglicus, entitled "The properties of things." It was written originally in Latin some years prior to 1260, and translated into English by John Trevisa in 1397. The English version was printed in 1494. Observations on fishes are included.

Steele, *Robert L.* The voracity of fishes. Scient. Amer., 1876, **35**, 68. 1876.1

Steenstra-Toussaint, *Abraham Joannes Daniel.* Descriptio anatomica organorum urinam secernentium in piscibus, et comparatio physiologica cum iisdem partibus in reliquis animalibus. Ann. Acad. Leijden, 1834. Also separate; Leyden, 1835. 1834.1

—— Commentatio de systemate uropoetico piscium. Lugduni Batavorum, 1835. pl. 4°. 1835.1

—— Responsio ad quæstionem zoölogicam, etc. Leyden, 1835. 1835.2

—— De systemate uropoetico *Squali* [*Carcharias*] *glauci.* Tijdschr. Natuurl. Geschied. Amsterdam, 1839, **6**, 199–203. pl. 1839.1

—— Note sur le système urinaire du *Squalus glaucus.* Bull. Sci. Phys. Néerlande, 1839, 314–316. 1839.2

—— Over de darmen van eenen haai (*Squalus glaucus*) Tijdschr. Natuurl. Geschied. Amsterdam, 1843, **10**, 103–107. pl. 1843.1

Steenstrup, *Johannes Japetus Smith* [1813–1897] Die seeländischen Pleuronectes-Arten. Arch. Naturgesch., 1835, 2. Jahrg., 133–185. 1835.1

—— Geognostik-geologisk undersögelse af skovmoserne vednesdam og lillemose i det nordlige Sjaeland ledsaget af sammenlingende bemærkninger, heutede fra Danmarks Skov- Kjaer- og Lyngmoser i Almindelighed. Dansk. Vid. Selsk. Afhand. 1841 (1842), **9.** 1842.1

—— Om den i Yarrell's British fishes givne figur af en ung *Xiphias gladius.* Forh. Skand. Naturf. Kjøbenhavn 1860 (1861), **8**, 687–688. 1861.1

—— Om forskiellen imellem beenfiskenes og bruskfiskenes Skiældannelse. Forh. Skand. Naturf., Kjøbenhavn 1860 (1861), **8**, 688–689. 1861.2

—— Sur la différence entre les poissons osseux et les poissons cartilagineux au point de vue de la formation des écailles. Abstract in Arch. Sci. Phys. Nat. Genève, 1861, n. s. **11**, 368. — Ann. Sci. Nat. (*Zool.*), 1861, 4. sér. **15**, 368. 1861.3

—— Bidrag til en rigtigere opfattelse af skjærheden hos flynderne (Pleuronectides) og til forklaring af begge Øines Fremkomst paa samme

side af kroppen. Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1863, 145–194. pl. & 16 figs. 1863.1

—— Jagttagelse af aeg med hornagtige aeghylstre hos slimaalen (*Myxine glutinosa* Linn.) med hensyn til det om denne fisk udsatte prissporgsmaal. Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1863, 233–239. fig. 1863.2

—— *Chironectes arcticus* Düb. et Kor. [*Antennarius marmoratus*] er ingen selvstændig eller nordisk art. Videnskab. Meddel. Naturh. Foren., Kjøbenhavn, 1864, 208–212. 1864.1

—— Meddelelse om slimaalens [*Myxine glutinosa* Linn.] aeg. Kjøbenhavn, 1864. 8°. 1864.2

—— Observations sur le développement des pleuronectes, extraites d'une lettre addressée à M. Milne Edwards. Ann. Sci. Nat. (*Zool.*), 1864, 5. sér. **2**, 253–258. pl. 1864.3

—— Om skaevheden hos flynderne. Kjøbenhavn, 1864. pls. 8°. 1864.4

—— [Sur la manière dont s'effectue la déformation de la tête chez les pleuronectes] C. R. Acad. Sci. Paris, 1864, **59**, 119. 1864.5

—— Beobachtungen über die Entwicklung der Plattfische (Pleuronecten) Aus der Heimat, 1865, 133–140. figs. 1865.1

—— Jagttagelse over en mærkelig bygning af gjællehulen hos vor rue hvarre, *Rhombus punctatus* (Bloch) (*Rhombus hirtus*) samt hos dens nærmest beslægtede *Rhombus unimaculatus* Risso, og bemærkninger om berettigelsen af slægten *Zeugopterus gottsche* optages her tilligemed en senere esterskrift til Meddelelsen. Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1865, 95–112. figs. —Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 72. 1865.1

—— Observations sur divers poissons: *Chiroteptra vampirus*, *Myxina glutinosa*, *Blennius viviparus*. Verh. Schweizer. Naturf. Ges., 1865, **49**, 94–96. 1865.2

—— Om flynderslægten Zeugopterus on Bygningen auf dens Gjällehulle. Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1865, 95–112. figs. 1865.3

—— Om de uparrede finners bygning hos de blödfinnede og pigfinnede fisk. Vidensk. Meddel. Naturh. Foren., Kjøbenhavn, 1866, 238–239. 1866.1

—— Om skjoevheden hos flynderne og navnlig om vandringen af det övre öie fra blindsiden til öiesiden tvers igjeunem hovedet. Arch. Sci. Phys. Nat. Genève, 1866, n. s. **25**, 175–179. 1866.2

—— On the Pleuronectidæ of the genus Zeugopterus [Rhombus] and the structure of their branchial cavity. Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 72. 1866.3

—— Sur les plies du genre Zeugopterus et la structure de leur cavité branchiale. Arch. Sci. Phys. Nat. Genève, 1866, n. s. **26**, 79–80. 1866.4

—— Om gjællegiteret eller gjællebarderne hos brugden (*Selachus maximus* Gunn.) Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1873, 47–66. pl. 1873.1

French résumé, p. 8–10.

—— On the straining appendages or branchial fringes of the basking shark (*Selachus maximus* Gunn.) (In Jones, T. Rupert. Manual of the natural history, geology and physics of Greenland, etc., p. 123–124. London, 1875. 784 p. 8°) 1875.1

—— Fortsatte bidrag til en rigtig opfattelse af Øiestillingen hos flynderne. Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1876, 174–247. 4 pls. & fig. 1876.1

—— Noget om slægten søulv (Anarrhichas) og dens nordiske arter. Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1876–77, 159–202. pl. 1876.2

—— Diagnose et synonymie des Anarrhicas de l'Atlantique. Abstract in Journ. Zool. (Gervais), 1877, **6**, 175–176. 1877.1

—— Oplysning om *Anarrhichas leopardus* Agass. [*A. lupus*] (= den islanske hlire, *A. minor*. Eg. Olafs.) Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1877–78, 109–114. 1877.2

Steenstrup, *Johannes Japetus Smith*, & **Lütken,** *Christian Frederik*. Beskrivelse af en ved de Danske kyster i begyndelsen 1862 opdreven kaempestor klumpfisk (*Mola nasus* Raf. [*Orthagoriscus mola*]) Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1862, 36–43. 1862.1

—— Spolia Atlantica. Bidrag til kundskab om klump-eller maane-fiskene (Molidæ) Oversigt Dansk. Vid. Selsk. Kjøbenhavn, 1898, 6. ser. **9**, no. 1, 102 p. 4 pls. & figs. 1898.1

Stefano, *Giuseppe de.* Alcuni pesci pliocenici di Calanna in Calabria. Boll. Soc. Geol. Ital., 1901, **20**, 552–562. pl. 1901.1

—— Sopra alcuni avanzi di vertebrati fossili conservati nel Museo Civico di Cremona. Boll. Soc. Geol. Ital., 1906, **25**, 744–748. 1906.1

—— Osservazioni sulla ittiofauna pliocenica di Orciano e San Quirico in Toscana. Boll. Soc. Geol. Ital., 1910, **28**, 539–648. 5 pls. 1910.1

—— Ricerche sui pesci fossili della Calabria meridionale. Parte prima. Ittioliti miocenici di capo dell' Armi. Boll. Soc. Geol. Ital., 1910, **29**, 165–198. pls. 1910.2

—— Sui pesci pliocenici dell' Imolese. Boll. Soc. Geol. Ital., 1911, **29**, 381–402. pl. 1911.1

—— Appunti sulla ittiofauna fossile dell' Emilia conservata nel museo geologico dell' Università di Parma. Boll. Soc. Geol. Ital., 1912, **31**, 35–78. 2 pls. 1912.1

—— La ittiofauna del mare pliocenico italiano. Rivist. Ital. Paleontol., 1912, **18**, 74–82. 1912.2

Review by E. Tissi in Bib. Geol. Ital. Rome, 1912, 56.

—— Studio sui pesci fossili della pietra di Bismantova. Boll. Soc. Geol. Ital., 1912, **30**, 351–422. 3 pls. 1912.3

—— Osservazioni geologiche sull' Eocene della Calabria meridionale. Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1914, **52**, 309–370. 1914.1

—— Osservazioni sulle piastre dentarie di alcuni Myliobatis viventi e fossili. Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1914, **53**, 73–164. 4 pls. & 13 figs. 1914.2

—— Sopra alcuni ittiodontoliti dei fosfati di Kalaa-Dyerda in Tunisia. Boll. Soc. Geol. Ital., 1915, **34**, 263–272. pl. 1915.1

Steffens, *Henrik* [1773–1845] Ueber die elektrischen Fische. Frankfurt-a.-M., 1818. 8°. 1818.1

Steglich, *B.* Die Fischwässer und Fischereiverhältnisse in Sachsen. Dresden, 1895. 8°. 1895.1

Steglich, *Ellen.* *Heros facetus*, seine Haltung und Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 602–604. fig. 1912.1

Stehli, *Georg.* Der japanische Nasenhai. Kosmos, Stuttgart, 1912, 9. Jahrg., 156–157. 4 figs. 1912.2

Stehr, *E.* Zur Fortpflanzung des Kampffisches. Blätt. Aquar.-Terrar. Freunde, 1898, 9. Jahrg., 55. 1898.1

Steier, *August.* Die Entwicklung der Tiere in der Naturalis Historia des Plinius. Zool. Annalen, 1912, **4**, 221–267. 1912.1

Fische, p. 244–248.

—— Die Tierformen des Plinius. Zool. Annalen, 1913, **5**, 1–66. 1913.1

—— Zoologische Probleme bei Aristoteles und Plinius. Zool. Annalen, 1913, **5**, 267–305. 1913.2

Stein, *J. G. am.* Der Schwol, *Telestes agassizii* [*Leuciscus muticellus*] des graubündnerischen Rheinthals von Fläsch bis Chur. Jahresber. Naturf. Ges. Graubündens, 1873, 17. Jahrg., 41–48. 1873.1

Stein, *S. Th. von.* Ueber die Wirkung ununterbrochenen Centrifugierens auf die Entwicklung der Eier des Hühnchens, der Fische und der Meerschweinchen [Text in Russian] Trd. Klin. Bol. Ucha Nos. Gorl., Moskva, 1909, **3**, 35–110. 13 pls. 1909.1

Stein, *W.* Noch etwas über den Jodgehalt des Leberthrans. Journ. Prak. Chem. (Erdmann), 1840, **21**, 308–310. — Journ. de Pharm., **27**, 94–95. — Ann. Electr. (Sturgeon), **7**, 312. 1840.1

Steinach, *Eugen.* Untersuchungen zur vergleichenden Physiologie der Iris. Arch. Gesam. Physiol., 1890–92. 1890.1

i. Ueber Irisbewegung bei den Wirbelthieren und über die Beziehung der Pupillarreaction zur Sehnervenkreuzung im Chiasma. Arch. Gesamt. Physiol., 1890, **47**, 289–340.

ii. Ueber die directe motorische Wirkung des Lichtes auf den Sphincter pupillæ bei Amphibien und Fischen und über die denselben aufbauenden pigmentirten glatten Muskelfasern. *Ibid.*, 1892, **52**, 495–525. pl.

Steindachner, *A.* Ueber den Rectus von Petromyzon. Zool. Anz., 1882, **5**, 660. 1882.1

Steindachner, *Franz* [1834 —] For partial bibliography, *see* Duncker, *G.* General-index zu Franz Steindachners ichthyologischen Mitteilungen, Notizen und Beiträgen. Mitt. Nat. Mus. Hamburg, 1914, 31. Jahrg., 2. Beih., 285–352. *See also* his Geschichte der Zoologie in Oesterreich von 1850 bis 1900, in Festschrift k.k. Zool.-Bot. Ges. Wien, p. 407–443. Wien, 1901.

—— Beiträge zur Kenntniss der fossilen Fischfauna Oesterreichs. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1859, **37**, 673–701. *Ibid.*, **38**, 763–788. *Ibid.*, 1860, **40**, 555–572. *Ibid.*, **47**, 1. Abth., 128–142. 1859.1

—— Ueber *Amphisile scutata* (Klein) und *Amphisile macrophthalma*, n. sp. Verh. Zool.-Bot. Ges. Wien, 1860, **10**, 765–766. 1860.1

—— Beiträge zur Kenntniss der Gobioiden. Sitzber. Akad. Wiss. Wien, 1861, **42**, 283–292. pl. 1861.1

—— Ichthyologische Mittheilungen, I–IX. Wien, 1861–66. pls. 8°. 1861.2

Reprinted from articles in Verh. Zool.-Bot. Ges. Wien, 1861–66.

—— Ichthyologische Mittheilungen [No. I] Verh. Zool.-Bot. Ges. Wien, 1861, **11**, 71–80. 1861.3

i. Ueber *Holocentrum caudimaculatum* Rüpp. Neue Wirbelthiere von Abyssinien [*H. spinifer* Rüpp., etc.] p. 71–73.

ii. *Myripristis maculatus*, n. sp., p. 73–75.

iii. *Cirrhitichthys graphidopterus* Blkr., p. 75.

iv. Ueber Cuv. Valenciennes Genera Mesoprion und Diacope, p. 76.

v. *Priacanthus holocentrum* Blkr. [*P. schmidtii* Blkr.] p. 76.

vi. Ueber *Dascyllus marginatus* Ehr. [*Pomacentrus marginatus* Rüpp. u. *Dascyllus xanthosoma* Blkr.] p. 77–78.

vii. Ueber *Amphiprion percula* C. V. [*A. tunicatus* C. V.] *Anthias polymnus* var. Bloch und *Amphiprion polymnus* Bloch Schneider [*Anthias polymnus* Bloch] p. 78–80.

—— Ichthyologische Mittheilungen. II. Verh. Zool.-Bot. Ges. Wien, 1861, **11**, 133–144. pl. 1861.4

i. Ueber das Geschlecht Novacula Valenc., p. 133–134.

ii. *Xyrichthys argentimaculata*, n. sp., p. 134–136.

iii. *Xyrichthys* (*Novacula*) *arago*, n. sp. [*Labrus arago* Q. Gaim. u. *Labrichthys ? arago* Blkr.] p. 136–139.

iv. Ueber das Geschlecht Leptopterygius Trosch., p. 139.

v. Ueber die Geschlechter Pagrus und Chrysophrys Cuv., p. 139–141.

vi. Ueber *Chelichthys psittacus*, n. sp. [*Tetrodon psittacus* Bloch] p. 141–142.

vii. Zur Fischfauna des Isonzo, p. 142–144.

—— Ichthyologische Mittheilungen. III. Verh. Zool.-Bot. Ges. Wien, 1861, **11**, 175–182. pl. 1861.5

i. *Cæsio multiradiatus*, n. sp., p. 175–176. fig.

ii. *Acanthurus fuscus*, n. sp., p. 176–178. fig.

iii. Ueber das Pleuronectiden-Geschlecht Bothus Bonap. und die Art *Bothus bleekeri* Steind., p. 178–179.

iv. Ueber *Chrysophrys spinifera* Steind. [*Pagrus spinifer* Cuv., *Sparus spinifer* Forsk., *Pagrus longifilis* Cuv. Val.] p. 179–180.

v. *Sargus natalensis*, n. sp., p. 180–182.

—— Ichthyologische Mittheilungen. IV. Verh. Zool.-Bot. Ges. Wien, 1862, **12**, 497–504. pl. 1862.1

i. Kritische Bemerkungen zu Theod. Gill's "Monograph of the genus Labrax, of Cuvier," p. 497–504.

ii. Ueber den dreifachen Verlauf der Seitenlinie auf der Caudale bei einigen Percoiden, p. 504.

—— Ueber eine neue Gobius-Art aus dem adriatischen Meere. Arch. Zool. Anat. Fisiol. (Canestrini), 1862, **2**, pt. 2, 340–342. 1862.2

—— Beiträge zur Kenntniss der fossilen Fischfauna Oesterreichs. Sitzber. Akad. Wiss. Wien, 1863, **47**, 1. Abth., 128–142. Also separate; Wien, 1863. 16 p. 8°. 1863.1

—— Beiträge zur Kenntniss der Sciænoiden Brasiliens und der Cyprinodonten Mexicos. Sitzber. Akad. Wiss. Wien, 1863, **48**, 1. Abth., 162–185. 4 pls. Also separate; Wien, 1864. 24 p. 8°. 1863.2

—— Bemerkungen über verschiedene Fische des Donaugebietes. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 488–490. 1863.3

—— Ichthyologische Mittheilungen. V. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 1111–1114. 2 pls. 1863.4

Ueber einige Labroiden des Wiener Museums.

—— Ichthyologische Mittheilungen. VI. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 1189–1192. 3 figs. [& pl. in Bd. **14**] 1863.5

i. *Coris* (*Hologymnosus*) *tæniatus*, n. sp., p. 1189–1190.

ii. *Julis gracilis*, n. sp., p. 1190.

iii. *Platyglossus* (*Halichæres*) *doleschalli*, n. sp., p. 1190–1191.

iv. *Petroscirtes altivelis*, n. sp., p. 1191–1192.

—— Neue Beiträge zur Kenntniss der fossilen Fische Oesterreichs. Denkschr. Akad. Wiss. Wien, 1863, **21**, 17–36. 1863.6

—— Ueber das Vorkommen monströser Kopfbildungen bei den Karpfen. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 485–487. 1863.7

—— Ueber eine neue Alburnus-Art aus Syrien. Sitzber. Akad. Wiss. Wien, 1863, **48**, 1. Abth., 193–194. 1863.8

—— Ueber eine neue Gerres-Art aus Mexiko. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 383–384. pl. 1863.9

—— Ueber eine neue Pristipoma-Art aus Bahia. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 1013–1016. fig. 1863.10

—— Verzeichniss der von H. Grafen Ferrari und H. Custos-Adjuncten Zelebor in Siebenbürgen, in den östlichen Theilen Slavoniens, in der Nähe der

Steindachner, *F.*
Theiss-Mündungen und bei Tuldscha, nächst den Donau-Mündungen, gesammelten Fische und Reptilien. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 1121–1124. 1863.11

—— Beiträge zur Kenntniss der Chromiden Mexico's und Central-Amerika's. Denkschr. Akad. Wiss. Wien, 1864, **23**, 2. Abth., 57–74. 5 pls. Also separate; Wien, 1864. 4°. 1864.1

—— Beiträge zur Kenntniss der fossilen Fische Oesterreichs. Abstract in Neues Jahrb. Mineral., 1864, 382–383. 1864.2

—— Catalogue préliminaire des poissons d'eau douce de Portugal, conservés au Muséum d'Histoire Naturelle de Lisbonne. Lisbonne, 1864. 8 p. 4°. 1864.3

Suite: Description d'une espèce nouvelle du genre Hemichromis . . . *H. angolensis* Steind. [avec une note par J. V. Barbosa du Bocage]

—— Ichthyologische Mittheilungen. VII. Verh. Zool.-Bot. Ges. Wien, 1864, **14**, 223–232. 2 pls. 1864.4

i. *Scaphiodon capoëta* Heck., p. 223–224.
ii. *Scaphiodon sieboldii*, n. sp., p. 224–225.
iii. *Chromis dumerilii*, n. sp., p. 225–226.
iv. *Chromis niloticus* Cuv., p. 226–227.
v. *Chromis latus* Günther, p. 227–228.
vi. *C. güntheri*, n. sp., p. 228–229.
vii. *C. aureus*, n. sp., p. 229–230.
viii. *Serranus* (*Cernua*) *ongus* Bloch Günther (?), an *Serranus angustifrons*, n. sp., p. 230–231.
ix. *Acerina schraetzer* Linné = *A. rossica* Cuv., p. 231–232.

—— Ichthyologische Notizen. I–X. Wien, 1864–68. pls. 8°. 1864.5

Reprinted from a series of contributions listed below under the respective years of publication.

—— Ichthyologische Notizen. I. Sitzber. Akad. Wiss. Wien, 1864, **49**, 1. Abth., 200–214. 2 pls. 1864.6

i. *Centropomis affinis*, n. sp.
ii. *Heterognathodon petersii*, n. sp.
iii. *Corvina microps* Steind.
iv. *Pachypops biloba* Steind.
v. *Pempheris schomburgkii* M. & Tr. an n. sp.?
vi. *Platyglossus* (*Leptojulis*) *dubius*, n. sp.
vii. *Mugil güntheri*, n. sp.
viii. *Pimelodus altipinnis*, n. sp.

— Description d'une espèce nouvelle du genre Hemichromis. Appendice: Liste des poissons de la Guadiana trouvés par l'auteur à Mertola. Mem. Acad. Real. Sci. Lisboa, 1865, **3**, pt. 2, 1–4. 1865.1

—— Ichthyologischer Bericht über eine nach Spanien und Portugal unternommene Reise. I–V. Wien, 1865–68. 1865.2

Reprinted from a series of contributions separately listed below.

—— Vorläufiger Bericht über die an der Ostküste Tenerife's bei Santa Cruz gesammelten Fische. Sitzber. Akad. Wiss. Wien, 1865, **51**, 1. Abth., 398–404. 1865.3

—— Allgemeine Bemerkungen über die Süsswasserfische Spaniens und Portugals und Revision der einzelnen Arten. Selbstverlag des Verfassers. Wien, 1866. 15 p. 8°. 1866.1

—— Ichthyologischer Bericht über eine nach Spanien und Portugal unternommene Reise. I. Sitzber. Akad. Wiss. Wien, 1866, **52**, 1. Abth., 483–491. pl. 1866.2

Zur Fischfauna des Albufera-Sees bei Valencia in Spanien.

—— Ichthyologischer Bericht über eine nach Spanien und Portugal unternommene Reise. II. Sitzber. Akad. Wiss. Wien, 1866, **53**, 1. Abth., 198–205. 1866.3

i. Ueber die Fische des Ebro und der Flüsse bei Bilbao.
ii. Ueber eine kleine Sammlung von Fischen aus dem Flusse Tet bei Perpignan.

—— Ichthyologischer Bericht über eine nach Spanien und Portugal unternommene Reise. III. Sitzber. Akad. Wiss. Wien, 1866, **54**, 1. Abth., 6–27. 6 pls. 1866.4

Ueber die Fische des Tajo (portug. Tejo) Duero (portug. Douro) Miño (portug. Minho), deren Nebenflüssen und aus dem Jucar bei Cuenca.

—— Ichthyologischer Bericht über eine nach Spanien und Portugal unternommene Reise. IV. Sitzber. Akad. Wiss. Wien, 1866, **54**, 1. Abth., 261–272. 3 pls. 1866.5

Zur Flussfischfauna des südlichen Theiles von Spanien und Portugal.

—— Ichthyologische Mittheilungen. VIII. Verh. Zool.-Bot. Ges. Wien, 1866, **16**, 475–484. 2 pls. 1866.6

Collichthys lucida Richds., *Labrichthys australis*, *Platyglossus bifasciatus*, *Lethrinus genivittatus*, Cuv. Val., *L. striatus*, *Hæmulon xanthopterum* Cuv. Val., *Crayacion cochinchinensis*, *Channa fasciata*, *Batrachus marmoratus*, *Exocœtus hirundo*.

—— Ichthyologische Mittheilungen. IX. Verh. Zool.-Bot. Ges. Wien, 1866, **16**, 761–796. 1866.7

i. Ueber einige neue Süsswasserfische von Angola, p. 761–771.
ii. Ueber zwei neue Sciaenoiden, p. 771–774.
iii. Ueber zwei seltene Serranus-Arten und *Centropristis luciopercanus* Poey von den Antillen, p. 775–778.
iv. Ueber einige neue oder wenig gekannte Fische von Zanzibar, p. 778–782.
v. Ueber ein neues Cyprinoiden-Geschlecht von Hongkong, p. 782–784.
vi. Zur Fischfauna Kaschmirs und der benachbarten Länderstriche, p. 784–796.

—— Ichthyologische Notizen. II. Sitzber. Akad. Wiss. Wien 1865 (1866), **52**, 1. Abth., 594–599. pl. 1866.8

Zur Flussfischfauna von Kroatien.

—— Ichthyologische Notizen. III. Sitzber. Akad. Wiss. Wien, 1866, **53**, 1. Abth., 208–214. 2 pls. 1866.9

Ueber einige neue Fischarten aus Süd-Amerika.

—— New fishes from South America. Ann. Mag. Nat. Hist., 1866, 3. ser. **17**, 311–312. 1866.10

—— Ueber *Barbus mayori* Val., und *Lota vulgaris* Cuv. Verh. Zool.-Bot. Ges. Wien, 1866, **16**, 385–388. 1866.11

—— Ueber *Cephalus* [*Leuciscus*] *hypophthalmus* (Gray) Richds. Verh. Zool.-Bot. Ges. Wien, 1866, **16**, 383–384. fig. 1866.12

—— Ueber die fossilen Fische des Amphisylenschiefers am Ober-Rhein. Sitzber. Akad. Wiss. Wien, 1866, **54**, 1. Abth., 150–151. 1866.13

—— Ueber eine neue Mustelus-Art [*M. natalensis*] von Port Natal. Sitzber. Akad. Wiss. Wien, 1866, **53**, 1. Abth., 482–483. pl. Also separate; Wien, 1866. 2 p. 8°. 1866.14

—— Ueber eine neue Telestes-Art [*Leuciscus polylepis*] aus Croatien. Sitzber. Akad. Wiss. Wien, 1866, **54**, 1. Abth., 300–302. pl. Also separate; Wien, 1866. 8°. 1866.15

—— Ueber einige neue Fischarten aus Südamerica. Sitzber. Akad. Wiss. Wien, 1866, **53**, 208–214. 1866.16

—— Ueber einige neue oder wenig gekannte Fische von Zanzibar. Verh. Zool.-Bot. Ges. Wien, 1866, **16**, 778–782. 1866.17

—— Zur Fischfauna Kaschmirs und der benachbarten Länderstriche. Verh. Zool.-Bot. Ges. Wien, 1866, **16**, 784–796. 1866.18

—— Zur Fischfauna von Port Jackson in Australien. Sitzber. Akad. Wiss. Wien, 1866, **53**, 424–481. *Ibid.*, **56**, 320–335. 1866.19

—— Characters of new fishes [from Zanzibar] Ann. Mag. Nat. Hist., 1867, 3. ser. **19**, 441–442. 1867.1

—— Descriptions of new fishes. Ann. Mag. Nat. Hist., 1867, 3. ser. **20**, 79–80. 1867.2

—— Ichthyologischer Bericht über eine nach Spanien und Portugal unternommene Reise. V. Sitzber. Akad. Wiss. Wien, 1867, **56**, 1. Abth., 603–708. 9 pls. *Ibid.*, 1868, **57**, 1. Abth., 351–424. 6 pls. 1867.3

Uebersicht der Meeresfische an den Küsten Spaniens und Portugals.

—— Ichthyologische Notizen. IV. Sitzber. Akad. Wiss. Wien, 1867, **55**, 517–534. 6 pls. 1867.4

i. Ueber einige Meeresfische aus der Umgebung von Monrovia in Westafrika.
ii. Ueber einige Fischarten aus der Amurmündung.
iii. Ueber einige Fische aus Surinam und Mexico.
iv. Ueber eine neue Gattung und Art der Gruppe Trypanchenia (Fam. Gobiodei)
v. Ueber eine neue Ctenolabrus-Art aus Simla.

—— Ichthyologische Notizen. V. Sitzber. Akad. Wiss. Wien; 1867, **56**, 1. Abth., 307–376. 3 pls. 1867.5

i. Ueber eine neue Plecostomus-Art aus Brasilien.
ii. Ueber einige Fischarten aus Amurmündung.
iii. Ueber eine neue Pseudorhombus-Art von den Chinchas-Inseln.
iv. Ueber eine neue Scopelus- und Monacanthus-Art aus China.
v. Ueber eine neue Labroiden (?)-Gattung.
vi. Ueber eine neue Gobius-Art von den Philippinen.

—— Ichthyologische Notizen. VI. Sitzber. Akad. Wiss. Wien, 1867, **56**, 307–376. 3 pls. 1867.6

i. Ueber eine Sammlung von Fischen von Cap York in Australien.
ii. Zur Fisch-Fauna von Port Jackson.
iii. Ueber einige Fischarten aus dem la Plata-Strome.
iv. *Labrichthys gymnogenis* Günth.
v. Ueber *Corvina* (*Amblodon*) *neglecta* Gir.
vi. *Haplochilus* (*Panchax*) *rubropunctatus*, n. sp.
vii. Ueber einige neue oder seltene Fischarten von Westindien und Surinam.
viii. Ueber einige Cyprinoiden aus Ostindien.

—— Ueber einige Fische aus dem Fitzroy-Flusse bei Rockhampton in Ost-Australien. Sitzber. Akad. Wiss. Wien, 1867, **55**, 9–16. pl. & 2 figs. 1867.7

—— Ueber einige neue und seltene Meeres-Fische aus China. Sitzber. Akad. Wiss. Wien, 1867, **55**, 585–592. 1867.8

—— Ueber eine neue Batrachus-Art. Verh. Zool.-Bot. Ges. Wien, 1867, **17**, 516–518. 1867.9

—— Ueber eine Sammlung von Fischen von Cap-York in Australien. Sitzber. Akad. Wiss. Wien, 1867, **56**, 307–320. 1867.10

—— Die Gymnotidæ des k. k. Hof-Naturalien-Cabinetes zu Wien. Sitzber. Akad. Wiss. Wien, 1868, **58**, 1. Abth., 249–264. 2 pls. Also separate; Wien, 1869. 8°. 1868.1

Steindachner, *F.*

—— Ichthyologische Notizen. VII. Sitzber. Akad. Wiss. Wien, 1868, **57**, 1. Abth., 965–1008. 5 pls. 1868.2

Beschreibungen von 34 verschiedener Fischarten.

—— On a remarkable form of Pleuronectidæ [*Apionichthys ottonis*] from the Mediterranean. Ann. Mag. Nat. Hist., 1868, 4. ser. **2**, 80. 1868.3

—— *Polypterus lapradei*, n. sp., and *Polypterus senegalus*. Ann. Mag. Nat. Hist., 1869, 4. ser. **4**, 443. Notice in C. R. Acad. Sci. Paris, 1869, **69**, 898–899. 1869.1

—— *Polypterus lapradei*, n. sp., und *Polypterus senegalus* Cuv. aus dem Senegal. Sitzber. Akad. Wiss. Wien, 1869, **60**, 1. Abth., 103–108. 2 pls. Also separate; Wien, 1869. 6 p. 8°. 1869.2

—— Bericht über eine Sammlung von Fischen aus Singapore. Sitzber. Akad. Wiss. Wien, 1870, **60**, 557–571. 1870.1

—— Ichthyologische Notizen. VIII. Sitzber. Akad. Wiss. Wien 1869 (1870), **60**, 1. Abth., 120–139. 7 pls. 1870.2

Beschreibungen einiger neuen Arten.

—— Ichthyologische Notizen. IX. Sitzber. Akad. Wiss. Wien 1869 (1870), **60**, 1. Abth., 290–318. 8 pls. 1870.3

i. Ueber eine Sammlung von Süsswasserfische aus der Umgebung von Montevideo.
ii. Ueber eine neue Gattung und Art der Cyprinoiden aus China.
iii. Ueber einige neue oder seltene Arten von Mazatlan, Lagos und Santos.
iv. Ueber zwei neue Leptocephaliden von der Kuste Perus.

—— Ichthyologische Notizen. X. Sitzber. Akad. Wiss. Wien, 1870, **61**, 1. Abth., 623–642. 5 pls. 1870.4

—— Ueber eine Sammlung von Süsswasserfischen aus der Umgebung von Montevideo. Sitzber. Akad. Wiss. Wien, 1870, **70**, 290–301. 1870.5

—— Zur Fischfauna des Senegal. Sitzber. Akad. Wiss. Wien, 1870, **60**, 1. Abth., 669–714. 12 pls. *Ibid.*, 945–995. 8 pls. *Ibid.*, **61**, 1. Abth., 533–583. 8 pls. 1870.6

—— Ichthyologische Beiträge. I–XVII. Wien, 1874–94. 8°. 1874.1

The separate contributions forming this series are listed under the respective years of publication below.

—— Ichthyologische Beiträge [I] Sitzber. Akad. Wiss. Wien, 1874, **70**, 1. Abth., 355–390. pl. 1874.2

Pikea, n. g. (Percidæ), *Pikea lunulata*, *Aulacocephalus schlegelii* Gthr., *Anthias peruanus*, n. sp., *Chelmo pulcher*, n. sp., *Centrolophus peruanus*, n. sp., *Naseus punctulatus* C. et V., *Pellona furthii*, n. sp., *Pellona panamensis*, n. sp.

—— Die Süsswasserfische des südöstlichen Brasilien. Sitzber. Akad. Wiss. Wien, 1874, **70**, 1. Abth., 499–538. 6 pls. *Ibid.*, **71**, 1. Abth., 211–245. 6 pls. *Ibid.*, **74**, 1. Abth., 559–694. 13 pls. *Ibid.*, **76**, 1. Abth., 217–230. 2 pls. — Anzeiger Akad. Wiss. Wien, **11**, 214. *Ibid.*, **12**, 64. *Ibid.*, **13**, 191. *Ibid.*, **14**, 163. 1874.3

—— Beiträge zur Kenntniss der Chromiden des Amazonenstromes. Sitzber. Akad. Wiss. Wien, 1875, **71**, 1. Abth., 61–137. 8 pls. — Anzeiger Akad. Wiss. Wien, **12**, 17–18. 1875.1

—— Ichthyologische Beiträge. II. Sitzber. Akad. Wiss. Wien, 1875, **71**, 1. Abth., 443–480. pl. Abstract in Anzeiger Akad. Wiss. Wien, **12**, 108. 1875.2

i. Die Fische von Juan Fernandez in den Sammlungen des Wiener Museums.
ii. Ueber einige neue Fischarten von der Ost- und Westküste Südamerikas.

—— Ueber eine neue Gattung und Art [*Oncopterus darwinii*] aus der Familie der Pleuronectiden und über eine neue Thymallus-Art [*T. microlepis*] Sitzber. Akad. Wiss. Wien, 1875, **70**, 1. Abth., 363–371. 2 pls. — Anzeiger Akad. Wiss. Wien, 1875, **11**, 171–172. Also separate; Wien, 1874. 9 p. 8°. 1875.3

—— Ueber einige neue brasilianische Siluroiden aus der Gruppe der Doradinen. Sitzber. Akad. Wiss. Wien, 1875, **71**, 1. Abth., 138–151. 4 pls. Also separate; Wien, 1875. 14 p. 8°. 1875.4

—— Beiträge zur Kenntniss der Characinen des Amazonenstromes. Sitzber. Akad. Wiss. Wien 1875 (1876), **72**, 1. Abth., 6–24. fig. Also separate; Wien, 1875. 1876.1

—— Ichthyologische Beiträge. III. Sitzber. Akad. Wiss. Wien 1875 (1876), **72**, 1. Abth., 29–96. 8 pls. Abstract in Anzeiger Akad. Wiss. Wien, **12**, 129–130. 1876.2

Bemerkungen über *Serranus nebulifer* und *S. clathratus* Gird.

—— Ichthyologische Beiträge. IV. Sitzber. Akad. Wiss. Wien 1875 (1876), **72**, 1. Abth., 551–616. 13 pls. Abstract in Anzeiger Akad. Wiss. Wien, **12**, 222. 1876.3

i. Zur Fischfauna von Panama.
ii. Ueber einige neue oder seltene Fischarten

aus den Gebirgsbächen der hohen Anden in Peru.
iii. Ueber einige Fischarten aus dem Amazonen-Strome.
iv. Varia.

—— Ichthyologische Beiträge. V. Sitzber. Akad. Wiss. Wien 1876 (1877), **74**, 1. Abth., 49–240. 15 pls. 1877.1

i. Zur Fischfauna von Panama, Acapulco und Mazatlan.
ii. Ueber einige neue Fischarten, insbesondere Characinen und Siluroiden aus dem Amazonenstrome.
iii. Ueber einige Meeresfische von den Küsten Brasiliens.
iv. Ueber einige seltene oder neue Fischarten von der Westküste der nordlichen Theile Nordamerika's.
v. Ueber einige neue oder seltene Fischarten aus dem atlantischen, indischen und stillen Ocean.

—— Ichthyologische Beiträge. VI. Sitzber. Akad. Wiss. Wien, 1878, **77**, 1. Abth., 379–392. 1878.1

i. *Hoplopagrus güntheri* Gill.
ii. *Plecostomus unæ* Steind.
iii. *Plecostomus granosus* C. Val.
iv. *Plecostomus emarginatus* Val.
v. *Creagrutus peruanus* Steind.
vi. *Tetragonopterus maximus* Steind.
vii. *Scarus axillaris* n. sp.
viii. *Pœcilia boucardii* n. sp.
ix. *Gambusia episcopi* n. sp.
x. *Serranus costæ* Steind.

—— Beiträge zur Kenntniss der Flussfische Südamerika's, 1879–83. 1879.1

i. 1. Ueber eine Sammlung von Fischen aus dem Orinoco bei Ciudad Bolivar. 2. Ueber eine Sammlung von Fischen aus dem Mamoniflusse bei Chepo. 3. Ueber einige von Herrn Stolzmann in Peru gesammelte Süsswasserfische. Denkschr. Akad. Wiss. Wien, 1879, **41**, 1. Abth., 151–172. 4 pls. — Anzeiger Akad. Wiss. Wien, **16**, 149–152.

ii. [Beschreibungen von 51 Fisch-Arten] Denkschr. Akad. Wiss. Wien, 1882, **43**, 1. Abth., 103–146. 7 pls. — Anzeiger Akad. Wiss. Wien, **17**, 157–159.

iii. [Beschreibungen von 27 Fisch-Arten] Denkschr. Akad. Wiss. Wien, 1882, **44**, 1. Abth., 1–18. 5 pls. — Anzeiger Akad. Wiss. Wien, **18**, 97–99.

iv. 1. Bericht über eine Sammlung von Fischen aus dem Huallaga in dem Besitze des k. Zoologischen Museums in Dresden. 2. Bericht über eine Sammlung von Süsswasserfischen aus dem Rio de Huambo, in dem Zoologischen Museum zu Warschau. 3. Ueber einige Siluroiden und Characinen von Canelos (Ecuador) und aus dem Amazonen-Strome. Denkschr. Akad. Wiss. Wien, 1883, **46**, 1. Abth., 1–44. 7 pls. — Anzeiger Akad. Wiss. Wien, **19**, 175–180.

—— Ichthyologische Beiträge. VII. Sitzber. Akad. Wiss. Wien 1878 (1879), **78**, 1. Abth., 377–400. Abstract in Anzeiger Akad. Wiss. Wien, **15**, 156. 1879.2

i. Ueber die Sphyræna-Arten an der Westküste Amerika's.
ii. *Agonostoma fosteri* Bl. Schn.
iii. *Myxus* (*Neomyxus*) *sclateri* n. sp.
iv. *Percis filamentosa* n. sp.
v. *Leptobrama mülleri* n. sp.
vi. *Luciosoma bleekeri* n. sp.
vii. *Pangasius siamensis* n. sp.
viii. Ueber zwei neue Fischarten von den Galapagos-Inseln.
ix. *Belone stolzmanni* n. sp. *Perca fluviatilis* Linn.

—— Note on *Perca flavescens*. Proc. U. S. Nat. Mus. 1878 (1879), **1**, 243. — Smithson. Misc. Coll., **19**, 243. 1879.3

Translated by G. B. Goode from Ichthyologische Beiträge, Artikel vii, in Sitzber. Akad. Wiss. Wien, 1879, **78**, 1. Abth.

—— Ueber einige neue und seltene Fisch-Arten aus den k. k. Zoologischen Museen zu Wien, Stuttgart und Warschau. Denkschr. Akad. Wiss. Wien, 1879, **41**, 1–52. 9 pls. — Anzeiger Akad. Wiss. Wien, **16**, 29–34. 1879.4

—— Zur Fisch-Fauna des Magdalenen-Stromes. Denkschr. Akad. Wiss. Wien, 1879, **39**, 19–78. 15 pls. — Anzeiger Akad. Wiss. Wien, **15**, 88–91. 1879.5

—— Ichthyologische Beiträge. VIII. Sitzber. Akad. Wiss. Wien 1879 (1880), **80**, 1. Abth., 119–191. 3 pls. Abstract in Anzeiger Akad. Wiss. Wien, **16**, 194–195. 1880.1

i. Beschreibungen von 48 Fischarten.
ii. Vorläufige Mittheilung über einige neue Siluroiden und Characinen aus dem Cauca.

—— Ueber zwei neue Agonus-Arten aus Californien. Sitzber. Akad. Wiss. Wien, 1880, **82**, 1. Abth. 253–255. 2 pls. & 16 figs. 1880.2

—— Zur Fisch-Fauna des Cauca und der Flüsse bei Guayaquil. Denkschr. Akad. Wiss. Wien, 1880, **42**, 1. Abth., 55–104. 9 pls. — Anzeiger Akad. Wiss. Wien, **16**, 254. 1880.3

—— Ichthyologische Beiträge. IX. Sitzber. Akad. Wiss. Wien 1880 (1881), **82**, 1. Abth., 238–266. 6 pls. 1881.1

i. Ueber eine Sammlung von Flussfischen von Tohizona auf Madagascar.
ii. Ueber zwei neue Agonus-Arten aus Californien.
iii. Ueber einige Fischarten aus dem nordlichen Japan, gesammelt von Professor Dybowski.

—— Ichthyologische Beiträge. X. Sitzber. Akad. Wiss. Wien, 1881, **83**, 1. Abth., 179–219. 8 pls. Abstract in Anzeiger Akad. Wiss. Wien, **18**, 45–46. 1881.2

Beschreibungen von 32 Fischarten aus Japan.

—— Ichthyologische Beiträge. XI. Sitzber. Akad. Wiss. Wien, 1881, **83**, 1. Abth., 393–408. pl. 1881.3

10 species of teleosts are described.

—— Beiträge zur Kenntniss der Fische Afrika's und Beschreibung einer neuen Paraphoxinus-Art aus der Herzegowina. Denkschr. Akad. Wiss. Wien,

Steindachner, *F.*
1882, **45**, 1. Abth., 1–18. 6 pls. — Anzeiger Akad. Wiss. Wien, **19**, 41–43. 1882.1

—— Beiträge zur Kenntniss der Fische Afrika's und Beschreibung einer neuen Sargus-Art von den Galapagos-Inseln. Denkschr. Akad. Wiss. Wien, 1882, **44**, 1. Abth., 19–58. 10 pls. — Anzeiger. Akad. Wiss. Wien, **18**, 157–160. 1882.2

—— Beiträge zur Kenntniss der Flussfische Südamerika's. Denkschr. Akad. Wiss. Wien, 1882, **43**, 103–146. 7 pls. 1882.3

Contains descriptions of 16 new species.

—— Beiträge zur Kenntniss der Fische der Adria. Anzeiger Akad. Wiss. Wien, 1883, **20**, 212–214. 1883.1

—— Ichthyologische Beiträge. XII. Sitzber. Akad. Wiss. Wien 1882 (1883), **86**, 1. Abth., 61–82. 5 pls. Abstract in Anzeiger Akad. Wiss. Wien, **19**, 142–143. 1883.2

—— Ichthyologische Beiträge. XIII. Sitzber. Akad. Wiss. Wien 1883 (1884), 1. Abth., **88**, 1065–1114. 8 pls. 1884.1

i. Beiträge zur Kenntniss der Fische Australiens.
ii. *Caranx africanus*, n. sp.
iii. *Macrones chinensis*, n. sp.

—— Fische von Jan Mayen, gesammelt von Dr. F. Fischer (In Die Internationale Polarforschung, 1882–1883. Die Oesterreische Polarstation Jan Mayen . . . Beobachtungs-Ergebnisse, Bd. iii, p. 105–108. Wien, 1886) 1886.1

—— Ichthyologische Beiträge. XIV. Sitzber. Akad. Wiss. Wien 1887 (1888), **96**, 1. Abth., 56–68. 4 pls. 1888.1

—— Ichthyologische Beiträge. XV. Sitzber. Akad. Wiss. Wien, 1891, **100**, 1. Abth., 343–374. 3 pls. 1891.1

i. Ueber einige seltene und neue Fischarten aus dem canarischen Archipel.
ii. Ueber einige Characinen-Arten aus Süd-Amerika.
iii. *Pomacentrus grandidieri*, n. sp.

—— Veröffentlichungen der Commission für Erforschung des östlichen Mittelmeers. Vorläufiger Bericht über die zoologischen Arbeiten im Sommer 1891. Sitzber. Akad. Wiss. Wien, 1891, **100**, 1. Abth., 435–447. 1891.2

—— Ueber einige neue und seltene Fischarten aus der ichthyologischen Sammlung des k. k. Naturhistorischen Hofmuseums. Denkschr. Akad. Wiss. Wien, 1892, **59**, 1. Abth., 357–384. 6 pls. — Anzeiger Akad. Wiss. Wien, 1892, **29**, 130–134. 1892.1

—— Ichthyologische Beiträge. XVI. Sitzber. Akad. Wiss. Wien, 1893, **102**, 1. Abth., 215–243. 3 pls. 1893.1

—— Die Fische Liberia's. Notes Leyden Mus., 1894, **16**, 1–96. 4 pls. 1894.1

—— Ichthyologische Beiträge. XVII. Sitzber. Akad. Wiss. Wien, 1894, **103**, 1. Abth., 444–464. 5 pls. 1894.2

—— Vorläufige Mittheilung über einige neue Fischarten aus der ichthyologischen Sammlung des k. k. Naturhistorischen Hofmuseums in Wien. Anzeiger Akad. Wiss. Wien, 1895, **32**, 180–183. 1895.1

—— Beiträge zur Kenntniss der Süsswasserfische der Balkan-Halbinsel. Denkschr. Akad. Wiss. Wien, 1896, **63**, 1. Abth., 181–188. 2 pls. 1896.1

—— Bericht über die während der Reise Sr. Maj. Schiff "Aurora" von Dr. C. Ritter v. Microszewski in den Jahren 1895 und 1896, gesammelten Fische. Ann. Naturh. Hofmus. Wien, 1896, **11**, 197–230. pl. 1896.2

—— Ueber zwei neue Chirostoma-Arten aus Chile. Ann. Naturh. Hofmus. Wien, 1896, **11**, 231–232. 1896.3

—— Bericht über die von Dr. Escherich in der Umgebung von Angora gesammelten Fische und Reptilien. Denkschr. Akad. Wiss. Wien, 1897, **64**, 685–699. 4 pls. 1897.1

—— A reptiliák, amphibiák és halak jegyzéke [List of the reptiles, amphibians and fish of eastern Asia] (In Széchenyi, B. Keletazsiai utjának tudományos Erédmenye, vol. ii, p. 651–655. Budapest, 1897. 8°) 1897.2

—— Die Fische der Sammlung Plate. Fauna Chilensis. Zool. Jahrb. (*Suppl.*), 1898, **4**, 281–337. 7 pls. *Ibid.*, 1900, **6**, 201–214. 1898.1

—— Ueber eine neue Kuhlia-Art aus dem Golfe von Akabah. Sitzber. Akad. Wiss Wien, 1898, **107**, 1. Abth., 461–464. pl. 1898.2

—— Ueber einige neue Fischarten aus dem Rothen Meere, gesammelt während der I. und II. österreichischen Expedition nach dem Rothen Meere in den Jahren 1895–1896 und 1897–1898. Sitzber. Akad. Wiss. Wien, 1898, **107**, 1. Abth., 780–788. 2 pls. 1898.3

—— Ueber das vorkommen von *Gasterosteus platygaster* Kessl. im Stromgebiete der Donau. Sitzber. Akad. Wiss. Wien, 1899, **108**, 1. Abth., 539–542. 1899.1

—— Vorläufiger Bericht über einige von ihrer königlichen Hoheit Frau Prinzessin Therese von Bayern während einer Reise nach Südamerika gesammelten neuen Fischarten. Anzeiger Akad. Wiss. Wien, 1900, **37**, 206–208. 1900.1

—— Fische aus dem Stillen Ocean. Ergebnisse einer Reise nach dem Pacific (Schauinsland 1896–97) Denkschr. Akad. Wiss. Wien, 1901, **70**, 316–318; 483–521. 6 pls. 1901.1

—— Geschichte der Zoologie in Oesterreich von 1850 bis 1900. Fische. Festschr. Zool.-Bot. Ges. Wien, 1901, 407–443. 1901.2

Literatur über Fische, p. 431–443.

—— Ueber das Vorkommen eine bisher noch unbeschriebenen Paraphoxinus-Art. Anzeiger Akad. Wiss. Wien 1901, **38**, 197–198. 1901.3

—— Fische aus Südarabien und Sokötra. Denkschr. Akad. Wiss. Wien, 1902, **71**, 123–168. 2 pls. 1902.1

—— Herpetologische und ichthyologische Ergebnisse einer Reise nach Südamerika, mit einer Einleitung von Therese Prinzessin von Bayern. Denkschr. Akad. Wiss. Wien, 1902, **72**, 89–148. 5 pls. & 2 figs. 1902.2

—— Ueber zwei neue Fischarten aus dem Rothen Meere. Anzeiger Akad. Wiss. Wien, 1902, **39**, 336–338. 1902.3

—— Wissenschaftliche Ergebnisse der Südarabischen Expedition in den Jahren 1898 bis 1899. Fische von Südarabien und Socotra. Anzeiger Akad. Wiss. Wien, 1902, **39**, 316–318. 1902.4

—— Die Fische (In Ergebnisse einer zoologischen Forschungsreise in den Molukken und Borneo . . . von Willy Kükenthal. Zweiter Teil) Abh. Senckenb. Naturf. Ges., Frankfurt-a.-M., 1903, **25**, 409–464. 2 pls. 1903.1

—— Ergebnisse einer zoologischen Expedition nach Brasilien. Anzeiger Akad. Wiss. Wien, 1903, **40**, 99–103. 1903.2

—— Ueber einige neue Reptilien- und Fisch-Arten des Hofmuseums in Wien. Sitzber. Akad. Wiss. Wien, 1903, **112**, 1. Abth., 15–22. pl. 1903.3

—— Ueber eine neue Gattung und Art aus der Familie der Murænidæ, *Nettastomops barbatula*. Anzeiger Akad. Wiss. Wien, 1906, **43**, 299–300. 1906.1

—— Ueber *Homopholis erlangeri*, sp. nov., aus Abessinien, *Alestes adleri* Blg. ♂ u. ♀ aus dem Victoria-Nyansa und *Varicorhinus tornieri*, sp. nov., aus Deutsch-Kamerun. Ann. Naturh. Hofmus. Wien, 1906, **21**, 149–155. pl. 1906.2

—— Ueber zwei neue Corydoras-Arten aus dem Parnahyba- und Parahimflusse im State Piauhy. Anzeiger Akad. Wiss. Wien, 1906, **43**, 478–480. 1906.3

—— Zur Fischfauna der Samoa-Inseln. Sitzber. Akad. Wiss. Wien, 1906, **115**, 1. Abth., 1369–1425. — Anzeiger Akad. Wiss. Wien, **43**, 338–339. 1906.4

—— Drei neue Characinen und eine neue Corydoras-Art. Anzeiger Akad. Wiss. Wien, 1907, **44**, 82–85. 1907.1

—— Neue Fische aus Brasilien. Anzeiger Akad. Wiss. Wien, 1907, **44**, 152–155. 1907.2

—— Ueber eine in dem Rio Xingu (Brasilien) vorkommende Mugil-Art, *Mugil xinguensis*. Anzeiger Akad. Wiss. Wien, 1907, **44**, 489–491. 1907.3

—— Ueber eine neue Arges-Art aus den hohen Anden von Cayendelet, *Arges theresiæ*, n. sp. Anzeiger Akad. Wiss. Wien, 1907, **44**, 228–229. 1907.4

—— Ueber eine neue Corydoras-Art aus dem Rio Preto, einem sekundären Nebenflusse des Rio San Francisco, und eine Xenocara-Art aus dem Parnahyba bei Victoria und Sa. Filomena, welche von mir während der zoologischen Expedition der kaiserl. Akademie der Wissenschaften nach Brasilien gesammelt wurden, sowie über die weite geographische Verbreitung von *Anacyrtus* (*Rœboides*) *prognathus* Blgr. und *Brachychalcinus longipinnis* (Popta) Steind. Anzeiger Akad. Wiss. Wien, 1907, **44**, 290–293. 1907.5

—— Ueber einige Fischarten aus dem Flusse Cubataõ im Staate Santa Catharina bei Theresopolis (Brasilien) Sitzber. Akad. Wiss. Wien, 1907, **116**, 1. Abth., 475–492. 2 pls. 1907.6

—— Ueber drei neue Arten von Süsswasserfischen aus dem Amazonas-Gebiet und aus dem See Candidius auf der Insel Formosa, ferner über die

Steindachner, *F.*
vorgerückte Altersform von *Loricaria acuta* C. V. Anzeiger Akad. Wiss. Wien, 1908, **45**, 82–87. 1908.1

—— Ueber drei neue Characinen und drei Siluroiden aus dem Stromgebiete des Amazonas innerhalb Brasiliens. Anzeiger Akad. Wiss. Wien, 1908, **45**, 61–69. 1908.2

—— Ueber eine im Rio Jaraguá bei Joinville im Staate S. Catharina (Brasilien) vorkommende noch unbeschriebene Pseudochalceus-Art, C. *affinis*, sowie über eine neue Characinengattung und Art, *Joinvillea rosæ*, von gleichem Fundorte. Anzeiger Akad. Wiss. Wien, 1908, **45**, 28–31. 1908.3

—— Ueber eine neue Hemiodus-Art aus dem Stromgebiet des Amazonas, *Hemiodus fowleri*. Anzeiger Akad. Wiss. Wien, 1908, **45**, 131–132. 1908.4

—— Ueber eine neue Metynnis-Art (Fam. Characidæ) aus einer Lagune am Rio Medonho. Anzeiger Akad. Wiss. Wien, 1908, **45**, 326–327. 1908.5

—— Ueber eine noch unbekannte Art der Gattung Bergiella Eig. aus dem La Plata, *Bergiella platana*, sowie über die Identität von *Brachyplatystoma göldii* Eig. Bean (1907) und *Platystoma mucosa* Vaill. (1880) mit *Brachyplatystoma* (*Pimelodes*) *filamentosum* (Licht.) Anzeiger Akad. Wiss. Wien, 1908, **45**, 110–113. 1908.6

—— Ueber eine während der brasilianischen Expedition entdeckte Brachyplatystoma-Art aus dem Rio Parnahyba und über eine dicht gefleckte und gestrichelte Varietät von *Giton fasciatus* aus den Gewässern von Santos (Staat Sao Paulo) Anzeiger Akad. Wiss. Wien, 1908, **45**, 126–130. 1908.7

—— Ueber sechs neue Serrasalmo- und Myletes-Arten aus Südamerika. Anzeiger Akad. Wiss. Wien, 1908, **45**, 359–367. 1908.8

—— Ueber zwei neue Fischarten aus dem Stromgebiete des Rio San Francisco. Anzeiger Akad. Wiss. Wien, 1908, **45**, 191–194. 1908.9

—— Ueber zwei neue Siluroiden und zwei Curimatus-Arten, sowie über eine Varietät von *Ancistrus vittatus* aus dem Amazonasgebiete innerhalb Brasiliens. Anzeiger Akad. Wiss. Wien, 1908, **45**, 163–168. 1908.10

—— Eine neue Brachyplatystoma und eine neue Loricaria-Art. Anzeiger Akad. Wiss. Wien, 1909, **46**, 195–197. 1909.1

—— Eine neue Labeo-Art aus dem See Tanganyika, *Labeo hornii*. Anzeiger Akad. Wiss. Wien, 1909, **46**, 386–388. 1909.2

—— Eine neue Tilapia- und Lamprologus-Art aus dem Tanganyikasee und über *Brachyplatystoma* (*Tænionema*) *platynema* Blgr. aus der Umgebung von Pará. Anzeiger Akad. Wiss. Wien, 1909, **46**, 443–447. 1909.3

—— Einige neue Fischarten aus dem Tanganyikasee. Anzeiger Akad. Wiss. Wien, 1909, **46**, 399–404. 1909.4

—— Ueber eine Ageneiosus (Pseudageneiosus)-Art im Rio Parnahyba und Rio Puty bei Therezina, während der Brasilianischen Expedition in drei Exemplaren von 18 bis 34.8 cm Länge gefangen: *Ageneiosus* (*Pseudageneiosus*) *therezinæ*. Anzeiger Akad. Wiss. Wien, 1909, **46**, 341–342. 1909.5

—— Ueber eine neue Tetragonopterus-Art aus dem Amazonasgebiet (Rio Purus) Anzeiger Akad. Wiss. Wien, 1909, **46**, 172–173. 1909.6

—— Zwei neue Cichlidenarten aus dem See Tanganyika. Anzeiger Akad. Wiss. Wien, 1909, **46**, 425–428. 1909.7

—— Eine Notiz über einige neue Characinen-Arten aus dem Orinoco und dem oberen Surinam. Anzeiger. Akad. Wiss. Wien, 1910, **47**, 265–270. 1910.1

—— Ueber eine neue Loricaria-Art aus dem Flussgebiete des Jaraguá und der Ribeira im Staate S. Paulo und Sa. Catharina, über eine mit *Ancistrus aculeatus* (Perugia) = *Ancistrus gigas* (Blgr.) Reg. sehr nahe verwandte Ancistrus-Art aus dem Rio S. Francisco bei Barra, über eine neue Corydoras-Art aus dem Jaraguá und über die äusseren Geschlechtsunterschiede von *Corydoras kronei* Ribeira. Anzeiger. Akad. Wiss. Wien, 1910, **47**, 57–62. 1910.2

—— Ueber eine noch unbeschriebene Oxyloricaria- (= Sturisoma) Art aus dem Rio Meta in Venezuela und über die relativen Längenmasse bei *O. rostrata* (Sp.) Anzeiger Akad. Wiss. Wien, 1910, **47**, 410–411. 1910.3

—— Ueber einige neue Characinen-Arten aus dem Orinoco und dem oberen Surinam. Anzeiger Akad. Wiss. Wien, 1910, **47**, 265–270. 1910.4

—— Beiträge zur Kenntnis der Fischfauna des Tanganyikasees und des Kongogebietes. Sitzber. Akad. Wiss. Wien, 1911, **120**, 1. Abth., 1171–1186. 3 pls. — Anzeiger Akad. Wiss. Wien, **48**, 528–530. 1911.1

—— Die Fische des Itapocú und seiner Zuflüsse im Staate Sa. Catharina (Brasilien) Ann. Naturh. Hofmus. Wien, 1911, **24**, 419–433. pl. & 4 figs. 1911.2

—— Ueber eine neue brasilianische Myleus-Art und eine neuerliche Beschreibung von *Retroculus lapidifer* Casteln. nach Exemplaren beiderlei Geschlechter. Anzeiger Akad. Wiss. Wien, 1911, **48**, 342–347. 1911.3

—— Ueber einige Ageneiosus- und Farlowella-Arten, etc. Ann. Naturh. Hofmus. Wien, 1911, **24**, 399–408. pl. & figs. 1911.4

—— Ueber einige neue und seltene afrikanische Süsswasserfische. Anzeiger Akad. Wiss. Wien, 1911, **48**, 531–535. 1911.5

—— Ueber einige neue und seltene südamerikanische Süsswasserfische. Anzeiger Akad. Wiss. Wien, 1911, **48**, 369–376. 1911.6

—— Ueber vier neue Siluroiden und Characinen aus dem Amazonasgebiete und von Ceará aus der Sammlung des Museums Göldi in Pará. Anzeiger Akad. Wiss. Wien, 1911, **48**, 324–331. 1911.7

—— Zur Fischfauna des Dscha, eines sekundären Nebenflusses des Congo im Bezirke Molundu des südlichen Kamerun. Anzeiger Akad. Wiss. Wien, 1912, **49**, 443–449. 1912.1

—— Los peces de la colección del Dr. L. Plate. Trabajo traducido de la obra "Fauna Chilensis." Bol. Mus. Nacion. Chile, 1913, **5**, 167–199. 10 pls. 1913.1

—— Zur Fischfauna des Dscha, einer sekundären Nebenflusses des Kongo, im Bezirke Molundu, Kamerun. Denkschr. Akad. Wiss. Wien, 1913, **89**, 1–64. 9 pls. & 12 figs. 1913.2

—— Ueber eine neue brasilianische Curimatus Art. Anz. Akad. Wiss. Wien, 1914, 262–263. 1914.1

Steindachner, *Franz,* & **Döderlein,** *Ludwig.* Beiträge zur Kenntniss der Fische Japan's. I–IV. Denkschr. Akad. Wiss. Wien, 1883, **47**, 211–242. 7 pls. *Ibid.*, 1884, **48**, 1–40. 7 pls. *Ibid.*, 1885, **49**, 171–212. 7 pls. *Ibid.*, 1887, **53**, 257–296. 4 pls. Also separate; Wien, 1883–87. Abstract in Anzeiger Akad. Wiss. Wien, **20**, 49–50. 1883.1

Steindachner, *Franz,* & **Kner,** *Rudolf.* Ichthyologische Beiträge zur Familie der Characinen. 2 vols. Wien, 1859. 17 pls. 4°. 1859.1

—— Beiträge zur Kenntniss der Gobioiden. Sitzber. Akad. Wiss. Wien, 1860, **42**, 283–292. pl. 1860.1

—— Ueber eine neue Gobius-Art [*Gobius quadrivittatus*] aus dem adriatischen Meere. Arch. Zool. Anat. Fisiol. (Canestrini), 1862, **2**, pt. 2. 1862.1

—— Beiträge zur Kenntniss der Sciænoiden Brasiliens und der Cyprinodonten Mexicos. Sitzber. Akad. Wiss. Wien, 1863, **45**, 162–185. 1863.1

—— Bemerkungen über verschiedene Fische des Donau-Gebietes. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 488–490. 1863.2

—— Verzeichniss der von Grafen Ferrari und H. Selebor in Siebenbürgen, in der östlichen Theilen Slavoniens, in der Nähe der Theiss-Mündungen gesammelten Fische. Verh. Zool.-Bot. Ges. Wien, 1863, **13**, 1121–1124. 1863.3

—— Neue Fische aus dem Museum der Herren Joh. C. Godeffroy & Sohn in Hamburg. Sitzber. Akad. Wiss. Wien, 1866, **54**, 356–395. 4 pls. 1866.1

—— Ueber einige Pleuronectiden, Salmoniden, Gadoiden und Blenniiden aus der Decastris-Bay und von Viti-Levu. Sitzber. Akad. Wiss. Wien, 1870, **61**, 1. Abth., 421–446. pl. 1870.1

Steindachner, *Franz,* & **Kolombatović,** *Georg.* Beiträge zur Kenntniss der Fische der Adria. Sitzber. Akad. Wiss. Wien, 1884, **88**, 1. Abth., 1193–1202. 2 pls. 1884.1

Steindachner, *Franz,* & **Peters,** *Wilhelm Carl Hartwig.* *See* **Peters & Steindachner.**

Steindachner, *Franz,* & **Therese von Bayern** (*Princess*) *See* **Therese von Bayern & Steindachner.**

Steiner, *J.* Ueber die Immunität der Zitterrochen (Torpedo) gegen ihren eigenen Schlag. Arch. Anat. Physiol. (Reichert), 1874, 684–701. 1874.1

—— Functioneller Beweis für die Richtigkeit der morphologischen Ansicht von der Entstehung des asymmetrischen Baues der Pleuronectiden (Flachfische)

Steiner, *J.*
Verh. Naturh.-Med. Ver. Heidelb., 1886, 127–137. figs. — Festschr. Naturh. Ver. Heidelberg, 1886, pt. A, 125–127. 1886.1

—— Ueber das Centralnervensystem der grünen Eidechse, nebst weiteren Untersuchungen über das des Haifisches. Sitzber. Akad. Wiss. Berlin, 1886, 539–543. 1886.2

—— Ueber das Centralnervensystem des Haifisches und des *Amphioxus lanceolatus*, und über die halbzirkelförmigen Canäle des Haifisches. Sitzber. Akad. Wiss. Berlin, 1886, 495–499. 1886.3

—— Ueber die Entstehung des asymmetrischen Baues der Pleuronectiden. Heidelberg, 1886. fig. 8°. 1886.4

—— Ueber das Gehirn der Knochenfische. Sitzber. Akad. Wiss. Berlin, 1886, 1133–1135. 1886.5

—— Ueber das Grosshirn der Knochenfische. Sitzber. Akad. Wiss. Berlin, 1886, 5–9. 1886.6

—— Die Funktionen des Zentralnervensystemes und ihre Phylogenese. Zweite Abteilung. Die Fische. Braunschweig, 1888. Abstract in Biol. Centralbl., 1888, **8**, 524–531. 1888.1

Steiner, *Max.* Eine Zierfischseltenheit (Therapon) Prakt. Zierfischzüchter, 1910, 19–20. 1910.1

Steinhard, *Otto.* Ueber Placoidschuppen in der Mund- und Rachenhöhle der Plagiostomen. Arch. Naturgesch., 1903, 69. Jahrg., **1**, 1–46. 2 pls. 1903.1

Steinhausen, —— Eine neue Liebhaberei. Isis (Russ), 1877, 2. Jahrg., 14–15. 1877.1

Steinhausen, *A.* Noch etwas vom *Trichogaster lalius.* Natur u. Haus, 1904, **12**, 228–229. 1904.1

Steinmann, *Johann Heinrich Conrad Gottfried Gustav,* & **Döderlein,** *Ludwig.* Elemente der Paläontologie. Leipzig, 1890. viii, 848 p. illust. 8°. 1890.1

Pisces, von L. Döderlein, p. 529–587.

Steinmann, *Paul.* Ueber Rheotaxis bei Tieren des fliessenden Wassers. Verh. Nat. Ges. Basel, 1913, **24**, 136–158. 3 figs. 1913.1

Vorkommen von echter Rheotaxis bei Planarien u. s. w. bewiesen (Orientierung durch Strömung selbst, unter Ausschluss der optischen Orientierung)

—— Untersuchungen über die Rheotaxis der Fische. Verh. Deutsch. Zool. Ges., 24. Vers., 1914, 278–290. 2 figs. 1914.1

Einstellung durch Druckreiz (Seelenorgane)

Steinmüller, *Johann Rudolph.* Ueber die Fische im Wallensee und über die Fischerei daselbst und in der Linth. Neue Alpina, 1827, **2**, 332–352. Also separate; Winterthur, 1827. 1827.1

Stejneger, *Leonhard* [1851 —] Røiren og den skotsk-norske landbro [*Salvelinus alpinus* und die schottischnorwegische Landbrücke] Naturen, Bergen, 1909, **33**, 52–59; 128. 1909.1

Steller, *Georg Wilhelm* [1709–1746] Beschreibung von dem Lande Kamtschatka, etc. Frankfurt & Leipzig, 1774. 1774.1

—— [Manuscript notes on the salmon and trout of Kamchatka, published posthumously by Tilesius, Pallas and others, 1809–1811. A portion of them also appear in Kracheninnikov's Description of Kamchatka published about 1750] 1809.1

See citation under the name of Richters, F., 1890.1, *supra.*

Stellwagen, *A. W.* Die Noorwegsche visscherijen in de Iszsee. Onze Tijd. Amsterdam, 1872, no. 1–2. 1872.1

Stemann, —— *von.* Aufsteigen der jungen Aale (montée) bei Rendsburg. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 189. 1878.1

—— Ueber Fang, Versetzung und Versand von Aalbrut. Circul. Deutsch. Fischerei Ver. 1877 (1878), no. 6, 178. 1878.2

—— Aalbrutversand. Circul. Deutsch. Fischerei Ver., 1879, no. 1, 31. 1879.1

—— Ein Wort über Salmoniden-Störgewinnung in Schleswig-Holstein. Allgem. Fischerei Zeitg., 1894, **19**, no. 6, 91–93. 1894.1

Stempell, *W.* Ueber die Entwicklung von *Nosema anomalum* Monz. Vorläufige Mittheilung. Zool. Anz., 1904, **27**, 293–295. 5 figs. 1904.1

—— Ueber *Nosema anomalum* Monz. Arch. Protistenkunde, 1904, **4**, 1–42. 3 pls. 1904.2

Stenbäck, *Jakob.* Bref från Pudasjärvi. Tidskr. Jägare & Fisk., 1894, **2**, 141–143. 1894.1

—— Laxens käk-krok. Tidskr. Jägare & Fisk., 1896, **4**, 39. 1896.1

—— Om laxens utbredning i Ijo elf. Fiskeritidskr. Finl., 1898, **7**, 17. 1898.1

Stenberg, *Herman.* Käynti kalastusasemalla Obin varrella. Luonnon Ystävä, 1900, **4**, 38–44. 1900.1

Stendell, *Walter.* Betrachtungen über die Phylogenesis der Hypophysis cerebri nebst Bemerkungen über den Neuroporus der Chordonier. Anat. Anz., 1914, **45**, 406–417. 1914.1

—— Einige Bemerkungen zum Aufsatz von V. Franz "Faseranatomie des Mormyridengehirns." Anat. Anz., 1914, **46**, 30–32. 1914.2

—— Histologie des Rückenmarkes von Amphioxus. Anat. Anz., 1914, **46**, 258–267. 7 figs. 1914.3

Edinger'sche Sinneszellen; anastomosierende Kommissurzellen.

—— Morphologische Studien an Mormyriden. Verh. Deutsch. Zool. Ges., 24. Vers., 1914, 254–261. 6 figs. 1914.4

Cerebellum und Nervus lateralis (facialis) mit Schnauzenorgan.

—— Ein Sinnesepithel im Zentralkanal (Wiss. Verein. Städt. Krankenhaus Frankfurt a. M.) München. Med. Wochenschr., 1914, 61. Jahrg., 45. 1914.5

Keine Beziehung zu einem Reissnerschen Faden bei Amphioxus.

—— Der Nervus electricus von Mormyrus. Zool. Anz., 1915, **45**, 438–441. 4 figs. 1915.1

Besonders hypertrophierte Kolossalfaser des 1. und 2. Spinalnerven.

Stender, *Emil.* Etwas vom Lachs. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 135–136. fig. 1912.1

Stenhouse, *A.* On the anatomy of the pig-fish (*Agriopus leucopœcilus*) Trans. New Zealand Inst., 1894, **26**, 111–120. 4 pls. 1894.1

Stenroos, afterwards **Kiwirikko,** *Karl Emil.* Om *Abramis leuckartii* Heckel och dess förekomst i Finland. Meddel. Soc. Fauna Flora Fenn., 1893, **19**, 54–55. 1893.1

—— Om *Abramis leuckartii* och *Bliccopsis erythrophthalmoides.* Meddel. Soc. Fauna Flora Fenn., 1895, **21**, 67–69. 1895.1

—— De zoologiska samlingarna. Meddel. Soc. Fauna Flora Fenn., 1895, **21**, 98–100. 1895.2

—— Kalojen sekamuodoista. Luonnon Ystävä, 1897, **1**, 60–62. 1897.1

—— Das Thierleben im Nurmijärvi-See. Eine faunistisch-biologische Studie. Acta Soc. Fauna Flora Fenn., 1898–99, **17**, no. 1, 1–259. 3 pls. map. 1898.1

—— Thierphänologische Beobachtungen in Finland 1895. Bidrag Känned. Finl. Natur & Folk, 1900, **58**, 47–72. 1900.1

Stenroos, *Karl Emil,* **Palmén,** *J. A.,* **Levander,** *K. M.,* & **Westerlund,** *A.* Det zoologiska sommarlaboratoriet på Esbo-Löfö. Meddel. Soc. Fauna Flora Fenn., 1893, Heft 19, 101–109. 1893.1

Stenta, *Mario.* Leuchtorgane bei höheren Tieren. Verh. Zool.-Bot. Ges. Wien, 1905, **55**, 265–266. 1905.1

Stentzel, *Alexander.* Ueber Lachszucht. Landwirth, 1869, 310–311. 1869.1

—— On the so-called "dry" method of impregnating spawn. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 571–575. 1874.1

—— Die grosse Maräne (*Coregonus marœna* [*C. lavaretus*]) die Vermehrung derselben im Besonderen und der Coregonus-Arten im Allgemeinen. Circul. Deutsch. Fischerei Ver. 1875 (1876), 1. Jahrg., no. 7, 371–382. fig. 1876.1

—— Feststellung von Laich-Schonrevieren bei Beuthen a. O. und bei Beichau, Kreis Glogau. Circul. Deutsch. Fischerei Ver. 1878 (1879), no. 1, 32–34. 1879.1

Stephan, ——, & **Kuffer,** *J. B.* Kurze Anleitung zur künstlichen Fischvorzüglich Forellenzucht. München, 1877. 8 p. 1877.1

Stephan, *M.* De rajis, schediasma primum. Lipsiæ, 1779. 8°. 1779.1

Stéphan, *Pierre.* Recherches histologiques sur la structure des corps vertébraux des poissons téléostéens. Arch. Anat. Micr., Paris, 1898, **2**, 355–372. pl. 1898.1

—— Sur les cellules propres de la substance ostéoïde des poissons téléostéens. C. R. Mém. Soc. Biol. Paris, 1898, 551–554. 1898.2

—— Recherches histologiques sur la structure du tissu osseux des poissons. Bull. Sci. France et Belgique, 1900, **33**, 281–429. 8 pls. & 4 figs. 1900.1

Stéphan, *P.*

—— Sur la structure histologique des tissus osseux des poissons. C. R. Assoc. Franç. Avanc. Sci., 28. sess., 1900, **1**, 272. 1900.2

—— De l'hermaphrodisme chez les vertébrés. Marseilles, 1901. 135 p. pl. 4°. 1901.1

—— Remarques sur la constitution de la vésicule germinative de téléostéens. C. R. Assoc. Franç. Avanc. Sci., 30. sess., 1901, pt. 1, 145–146. 1901.2

—— A propos de l'hermaphrodisme de certains poissons. C. R. Assoc. Franç. Avanc. Sci., 30. sess., 1902, 554–570. 4 figs. 1902.1

—— L'évolution de la cellule de Sertoli des sélaciens après la spermatogenèse. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 775–776. 1902.2

—— Remarques sur les formes tératologiques des cellules séminales. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 634–636. 1902.3

—— Sur le développement de la cellule de Sertoli chez les sélaciens. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 773–775. 1902.4

—— Sur quelques adaptations fonctionnelles des cellules génitales des poissons osseux. Bibliogr. Anat., Paris, 1902, **10**, 121–127. 1902.5

—— Sur quelques points relatifs à l'évolution de la vésicule germinative des téléostéens. Arch. Anat. Micr., Paris, 1902, **5**, 22–37. pl. 1902.6

—— Sur la signification des cellules séminales contenues dans les espaces interstitiels du testicule. C. R. Soc. Biol. Paris, 1902, **54**, 1326–1328. 1902.7

—— Sur la structure histologique du testicule du mulet. C. R. Assoc. Anat., 4. sess., 1902, 37–46. 1902.8

—— L'évolution des corpuscules centraux dans la spermatogenèse de *Chimæra monstrosa.* C. R. Mém. Soc. Biol. Paris, 1903, **55**, 265–267. fig. 1903.1

—— Recherches sur quelques points de la spermatogenèse des sélaciens. Arch. Anat. Micr., Paris, 1903, **6**, 43–60. pl. 1903.2

—— Le fonctionnement des grandes cellules à granulations éosinophiles du tissu lymphoïde du protoptère. C. R. Mém. Soc. Biol. Paris, 1906, **61**, 501–503. — Réunion Biol. Marseille, 1906, 51–53. 1906.1

Stephens, *J. W.*, & **Boyce,** *R.* A parasitic disease in the haddock. Thomson-Yates Lab. Rept., Liverpool, 1904, 5. ser. **2**, 105–107. 2 pls. 1904.1

Stephenson, *John.* Medical zoology and mineralogy; or Illustrations and descriptions of the animals and minerals employed in medicine and of the preparations derived from them; including also an account of animal and mineral poisons, etc. London, 1838. vi, 345 p. illust. 8°. 1838.1

Stephenson, *T.* Flying-fish off Whitby. Naturalist, London, 1894, 283. 1894.1

Sterling, *E.* Age of whitefish fry. N. Y. Citizen & Round Table, 1872, **9**, April 27. 1872.1

—— Fish in Cleveland [Ohio] Amer. Sportsman, 1874, **5**, 88. 1874.1

Notes on Polydon and Esox.

—— The grayling. Amer. Sportsman, 1874, **4**, 42. 1874.2

—— Report relative to the hatching and planting of the Penobscot salmon. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 382–383. 1874.3

—— Concerning the size of the brook trout (*Salmo fontinalis*) Rod & Gun, 1875, **7**, 200. 1875.1

—— Do fish feel? Rod & Gun, 1875, **7**, 104. 1875.2

—— Eels. Rod & Gun, 1875, **6**, 284. 1875.3

—— Propagation of whitefish. 5. Ann. Meet. Amer. Fish Cult. Assoc., 1876, 13–15. 1876.1

—— Dwarfed maskalonge. Forest & Stream, 1877, **8**, 241. 1877.1

—— Priority of fish breeding in the United States. Forest & Stream, 1877, **9**, 164. 1877.2

—— Propagation of whitefish. Trans. Amer. Fisheries Soc. 1876 (1877), 13–15. 1877.3

—— Fish swallowing fish. Forest & Stream, 1879, **13**, 905. 1879.1

—— The trout perch (*Percopsis guttala*) Forest & Stream, 1879, **12**, 166. 1879.2

—— The catfish. Forest & Stream, 1880, **15**, 367. 1880.1

—— Fish-eating snakes. Forest & Stream, 1880, **13**, 1005. 1880.2

—— The mascalonge. Forest & Stream, 1880, **15**, 346. 1880.3

—— Range of black bass and catfish. Forest & Stream, 1880, **15**, 428. 1880.4

—— On the impropriety of depositing whitefish minnows off the harbor of Cleveland, Ohio. Fishing for saugers. Bull. U. S. Fish Comm. 1883, **3**, 302–303. 1883.1

—— Notes on the Great Lake fisheries, depletion of black bass, etc. Bull. U. S. Fish Comm. 1884, **4**, 218–219. 1884.1

Sternberg, *Charles H.* [1850 —] *Protostega gigas* and other Cretaceous reptiles and fishes from the Kansas Chalk. Trans. Kansas Acad. Sci., 1905, **19**, 123–128. pl. 1905.1

—— Some animals discovered in the fossil beds of Kansas. Trans. Kansas Acad. Sci., 1906, **20**, 122–124. 1906.1

—— *Portheus molossus* Cope, and other fishes from the Kansas Chalk. Notice in Science, 1907, n. s. **25**, p. 295. 1907.1

—— The life of a fossil hunter, with an introduction by Henry Fairfield Osborn. New York, 1909. xiii, 286 p. 44 figs. 8°. 1909.1

Portheus molossus Cope, from the Cretaceous of Kansas, p. 54–60.

—— Expeditions to the Miocene of Wyoming and the chalk beds of Kansas. Trans. Kansas Acad. Sci., 1913, **26**, 45–49. pl. 1913.1

—— Notes on the fossil vertebrates collected on the Cope Expedition to the Judith river and Cow island beds, Montana. Science, 1914, n. s. **40**, 134–135. 1914.1

Sterndorff, *Kurt.* Experimentelle Untersuchungen über die Wirkung des Aalserums auf das menschliche und tierische Auge. Arch. Ophthalm., 1914, **88**, 158–183. pl. & fig. 1914.1

Konjunktivitis und Miosis.

Sterzel, *T.* Ueber vorweltliche Fische. Ber. Naturw. Ges. Chemnitz 1875–77 (1878), **6**, 34. 1878.1

Sterzi, *Giuseppe.* Le meningi spinali dei pesci; contributo alla filogenesi delle meningi spinali. Monitore Zool. Ital., Firenze, 1899, **10**, 38–42. 1899.1

—— Gli spazi linfatici delle meningi spinali ed il loro significato. Monitore Zool. Ital., Firenze, 1901, **12**, 210–216. 1901.1

—— Richerche intorno alla anatomia comparata ed all' ontogenesi delle meningi. Considerazioni sulla filogenesi. Atti R. Istit Veneto Sci. 1900–01 (1901), **40**, pt. 2. 261 p. 5 pls. 1901.2

—— Intorno alla divisione della dura madre dall' endocranio. Monitore Zool. Ital., Firenze, 1902, **13**, no. 1, 17–22. 1902.1

—— Recherches sur l'anatomie comparée et sur l'ontogenèse des méninges. Résumé. Arch. Ital. Biol., Turin, 1902, **37**, fasc. 2. 15 p. 1902.2

—— Die Blutgefässe des Rückenmarks. Untersuchungen über ihre vergleichende Anatomie und Entwickelungsgeschichte. Anat. Hefte, 1904, 1. Abth., 74. Heft, **24**, pt. 1, 1–364. 4 pls. & 37 figs. 1904.1

—— Intorno alla struttura dell' ipofisi nei vertebrati. Atti Accad. Sci. Veneto-Trent., 1904, 1–72. 1904.2

—— Morfologia e sviluppo della regione infundibolare e dell' ipofisi nei petromizonti. Arch. Ital. Anat. Embriol., 1904, **3**, 212–233; 249–287. 6 pls. & 3 figs. 1904.3

—— Sulla regio parietalis dei ciclostomi, dei selacii e degli olocefali. Anat. Anz., 1905, **27**, 346–364; 412–416. 8 figs. 1905.1

—— Il sistema nervoso centrale dei vertebrati; ricerche anatomiche ed embriologiche. 2 vols. Padova, 1907–12. 738 figs. 1907.1

Vol. i, Ciclostomi. viii, 731 p. 1907.
Vol. ii, Pesci. Libro 1, Selaci. xiv, 1361 p. 1909–12.

—— Il sacco endolinfatico. Ricerche anatomiche ed embriologiche. Morphol. Jahrb., 1909, **39**, 446–496. 3 pls. & 16 figs. 1909.1

—— Intorno allo sviluppo del tessuto nervoso nei selaci. Monitore Zool. Ital., Firenze, 1911, **22**, 34–44. 2 figs. 1911.1

Stettner, *Ph. Paratilapia multicolor*, seine Zucht und Pflege. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 243–245. fig. 1906.1

Steuber, *N. J.* Die Meeraale in den Gewässern von Chile. Mitt. Deutsch. Seefischerei Ver., 1905, **21**, 66–71. 1905.1

Steuer, *Adolf* [1871 —] Die Entomostrakenfauna der "alten Donau" bei Wien. Eine ethologische Studie. Mit einem Anhang: Zur Frage über Ursprung und Verbreitung der Entomostrakenfauna des Süsswassers. Zool. Jahrb. (*Abth. Syst.*) 1901, **15**, 1–156. 13 pls. 1901.1

—— Die Ernährung der Fische und die Bedeutung des Planktons. Stenogr. Protok. Verh. Intern. Fisch.-Kongr. Wien, 1905, 127–131. 1905.1

—— Ueber das Kiemenfilter und die Nahrung adriatischer Fische. Verh. Zool.-Bot. Ges. Wien, 1905, **55**, 275–299. 25 figs. 1905.2

—— Materialien zu einer Naturgeschichte der adriatischen Sardine. Oesterr. Fischerei Zeitg., 1908, **5**, 206–208; 226–228; 278–279; 422–423; 438–439. 1908.1

—— Leitfaden der Planktonkunde. Leipzig & Berlin, 1910. 723 p. pl. 365 figs. 1910.1

—— Ziele und Wege biologischer Mittelmeerforschung. Verh. Ges. Deutsch. Nat. Aerzte, 85. Vers., 1913, 1. Teil, 170–198. 20 figs. — Naturwissenschaften, 1913, 1. Jahrg., 1151–1156; 1169–1175. 18 figs. 1913.1

—— Abwehr des Vereins zur Förderung der naturwissenschaftlichen Erforschung der Adria in Wien gegen die Angriffe seines Ausschussmitgliedes und wissenschaftlichen Mitarbeiters Prof. Dr. Steuer, von J. von Wiesner. Naturwissenschaften, 1914, 2. Jahrg., 65–66. 1914.1

Steuert, *L.* Meine Erfahrungen in Salmoniden-Teichwirtschaft. Schweiz. Fischerei Zeitg., 1898, 6. Jahrg., 216–218; 228–230. 1898.1

—— Uppfödandet af harryngel. Fiskeritidskr. Finl., 1900, **9**, 26–27. 1900.1

—— Ueber Nahrungsaufnahme der Forelle (*Trutta fario*) während der Dottersackperiode. Fischerei Zeitg., 1901, **4**, 789–791. 1901.1

—— Wie viel Salmonidenfleisch kann ein Quadratmeter Teichfläche ohne künstliche Fütterung produzieren? Fischerei Zeitg., Neudamm, 1901, **4**, 837–838. 1901.2

—— Ueber die Ursachen der schädlichen Einwirkung mancher Moorwässer auf das Leben der Fische. I. Einfluss der Humussäure auf die Lebenstätigkeit von Salmoniden und Karpfen. Naturw. Zeitschr. Landw., Stuttgart, 1903, **1**, 161–168. 1903.1

—— Widerstandsfähigkeit der Forelleneier gegen mechanische Insulte (In Mitteilungen der königlichen bayerischen Akademie für Landwirthschaft und Braveria in Weihenstephan, p. 31–34. Freising, 1905) 1905.1

Abstract in Naturw. Zeitschr., Stuttgart, 1906, 4. Jahrg., 92–96. 4 figs.

Stevens, *H. A.* Catalogue of the library of Alexander von Humboldt, with a bibliographical and biographical memoir. London, 1863. 4°. 1863.1

Stevens, *Pardon W.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 16–19. 1873.1

Stevenson, *Charles Hugh.* Report on the coast fisheries of Texas. Rept. U. S. Fish Comm. 1889–91 (1893), **17**, 373–420. 14 pls. 1893.1

—— The fishery census of 1908. Trans. Amer. Fisheries Soc. 1909 (1910), 79–82. 1910.1

—— International regulations of the fisheries on the high seas. Proc. 4. Internat. Cong. Washington. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 1, 103–180. 1910.2

Stevenson, *W. G.* *Carcharodon carcharias*, man-eater shark. Trans. Vassar Bros. Inst., 1884, **2**, 83–92. pls. — Amer. Naturalist, 1884, **18**, 940–941. pl. & fig. 1884.1

Stevenson, *William* [1772–1829] Historical sketch of the progress of discovery, navigation and commerce, from the earliest records to the beginning of the nineteenth century (In Kerr, R. A general collection of voyages and travels, etc. vol. xviii. 1824. 8°) 1824.1

Steward, —— Fisch mit vier Augen. Allgem. Fischerei Zeitg., 1895, **20**, 337. 3 figs. 1895.1

Stewart, *Alban S.* A contribution to the knowledge of the ichthyic fauna of the Kansas Cretaceous. Kansas Univ. Quart., 1898, **7**, 21–29. 2 pls. 1898.1

—— Individual variations in the genus Xiphactinus Leidy. Kansas Univ. Quart., 1898, **7**, 115–119. 4 pls. 1898.2

—— A preliminary description of seven new species of fish from the

Cretaceous of Kansas. Kansas Univ. Quart., 1898, **7**, 191–196. pl. & 3 figs. 1898.3

—— Some notes on the genus Saurodon and allied species. Kansas Univ. Quart., 1898, **7**, 177–186. 3 pls. 1898.4

—— Leptichthys, a new genus of fishes from the Cretaceous of Kansas. Amer. Geologist, 1899, **24**, 78–79. 1899.1

—— Notes on the osteology of *Anogmius polymicrodus* Stewart. Kansas Univ. Quart., 1899, **8**, 117–121. pl. 1899.2

—— Notice of three new Cretaceous fishes, with remarks on the Saurodontidæ Cope. Kansas Univ. Quart., 1899, **8**, 107–112. 1899.3

—— *Pachyrhizodus minimus*, a new species of fish from the Cretaceous of Kansas. Kansas Univ. Quart., 1899, **8**, 37–38. fig. 1899.4

—— A preliminary description of the opercular and other cranial bones of Xiphactinus Leidy. Kansas Univ. Quart., 1899, **8**, 19–21. 2 pls. 1899.5

—— Teleosts of the Upper Cretaceous. Univ. Geol. Survey Kansas, 1901, **6** (*Paleont.*), pt. 2, 257–403. 41 pls. & 6 figs. 1901.1

Stewart, *Charles* [1840–1907] On a hermaphrodite mackerel, *Scomber scomber*. Journ. Linn. Soc. London (*Zool.*), 1891, **24**, 70. 1891.1

—— On a hermaphrodite trout (*Salmo fario*) Journ. Linn. Soc. London (*Zool.*), 1891, **24**, 69. 1891.2

—— On the membranous labyrinth of certain sharks. Journ. Linn. Soc. London (*Zool.*), 1906, **29**, 407–409. pl. 1906.1

—— On the membranous labyrinths of Echinorhinus, Cestracion and Rhina. Journ. Linn. Soc. London (*Zool.*), 1906, **29**, 439–442. pl. 1906.2

Stewart, *F. H.* Comparison of the fish fauna of the north and the south faces of the great Himalayan range. Rec. Indian Mus. Calcutta, 1909, **3**, 121–123. 1909.1

—— Notes on Cyprinidæ from Tibet and the Chumbi valley, with a description of a new species of Gymnocypris [*G. waddellii* Regan] Rec. Indian Mus. Calcutta, 1911, **6**, 73–92. pl. 1911.1

—— Pisces (List of the aquatic animals hitherto recorded from the provinces of Tsang and Ü in central Tibet, with a table showing their geographical distribution) Rec. Indian Mus. Calcutta, 1911, **6**, 70–71. 1911.2

Stewart, *James*. Notes on the introduction and acclimatization of the salmon. Trans. New Zealand Inst., 1876, **8**, 205–209. 1876.1

Stiasny, *Gustav*. Beobachtungen über die marine Fauna des Triester Golfes im Jahre 1909. Zool. Anz., 1910, **35**, 583–587. 1910.1

—— Ueber einige postlarvale Entwicklungsstadien von *Lophius piscatorius* L. Arb. Zool. Inst. Univ. Wien, 1911, **19**, 57–74. pl. 1911.1

—— Ueber einige vorgeschrittene Entwicklungsstadien von *Lophius piscatorius* L. Arb. Zool. Inst. Univ. Wien, 1913, **20**, 1–6. pl. 1913.1

—— Zur Kenntnis der postlarvalen Entwicklung von *Zeus pungio* C. V. Mitt. Zool. Stat. Neapel, 1914, **22**, 163–173. pl. & fig. 1914.1

Postlarvale Stadien. Pigmentierung. Körperproportionen.

Stieda, *Ludwig* [1837 —] Ueber das Rückenmark und einzelne Theile des Gehirns von *Esox lucius* L. Inaug. Dissert. Dorpat, 1861. 38 p. 4°. Abstract in Journ. Physiol. (Brown-Séquard), 1862, **5**, 144–146. 1861.1

—— Studien über das centrale Nervensystem der Knochenfische. Zeitschr. Wiss. Zool., 1868, **18**, 1–70. 2 pls. Summary in Quart. Journ. Micr. Sci., London, 1868, n. s. **8**, 87–88. 1868.1

—— Studien über das centrale Nervensystem der Wirbelthiere. Zeitschr. Wiss. Zool., 1870, **20**, 273–456. 4 pls. 1870.1

Knochenfische, p. 435–437.

—— Notizie preliminari sul cervello e sul midollo spinale delle raje e degli squali e sulla struttura del sistema nervoso della *Sepia officinale*. Rendic. Accad. Sci. Fis. Napoli, 1871, **10**, 243–247. 1871.1

—— Ueber das Alter der Fische. Sitzber. Dorpater Naturf. Ges. 1870 (1871), Heft 2, **3**, 127–132. *Ibid.*, 1872 (1873), Heft 4, 312. 1871.2

—— Die Bildung des Knochengewebes. Festschrift, etc. Leipzig, 1872. iv, 45 p. illust. 4°. 1872.1

Stieda, *L.*

—— Sul cervello e sul midollo spinale delle raje e degli squali. Rendic. Accad. Sci. Fis. Napoli, 1872, **11**. 1872.2

—— Etudes sur l'*Amphioxus lanceolatus.* Abstract in Journ. Zool. (Gervais), 1873, **2**, 536–539. 1873.1

—— Signification de certaines parties du cerveau des poissons. Journ. Zool. (Gervais), 1873, **2**, 551–553. 1873.2

—— Studien über den *Amphioxus lanceolatus.* Mém. Acad. Imp. Sci. St. Pétersb., 1873, 7. ser. **19**, no. 7, 71 p. 4 pls. Also separate; Leipzig, 1873. 4°. 1873.3

—— Ueber den Bau des Rückenmarkes der Rochen und der Haie. Zeitschr. Wiss. Zool., 1873, **23**, Heft 3, 435–442. pl. & 4 figs. 1873.4

—— Ueber die Deutung der einzelnen Theile des Fischgehirns. Zeitschr. Wiss. Zool., 1873, **23**, 443–450. 1873.5

Stieler, *Paul. Barilius neglectus,* n. sp. Blätt. Aquar.-Terrar. Kunde, 1907, 18. Jahrg., 169. 1907.1

Stieler, *W.* Eine neue Barbe, *Barbus ticto* (H. B.) Natur u. Haus, 1905, 13. Jahrg., 169–171. 1905.1

Stiervald, *C. F.* Hushålds-anmärkningar öfver Carlö socken i Österbotten. Tidn. utg. Sällsk. Abo, 1774, 97–100. 1774.1

Stiles, *Charles Wardell* [1867 —] Report on a parasitic protozoan observed on fish in the aquarium. Bull. U. S. Fish Comm. 1893 (1894), **13**, 173–190. 1894.1

—— Frogs, toads and carp (*Cyprinus carpio*) as eradicators of fluke disease. 18. Ann. Rept. Bur. Animal Industry 1901 (1902), 220–222. 7 figs. 1902.1

Stiles, *Charles Wardell,* & **Hassall,** *A.* A preliminary catalogue of the parasites contained in the collections of the U. S. Bureau of Animal Industry, U. S. Army Medical Museum, biological department of the University of Pennsylvania. Veter. Mag., 1894, **2**, 245–354. 1894.1

Lists among others parasites from freshwater fishes.

—— Index-catalogue of medical and veterinary zoology. Bull. Bur. Animal Industry, no. 39, U. S. Dept. Agricul., 1902–11. 1902.1

Extremely valuable and very complete list of all papers on animal parasites. Includes papers on fish parasites and on American freshwater species among others.

Stilwell, *Elias Miller.* On obstructions to the ascent of fish in the rivers of Maine. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 617–621. 1874.1

—— On shad-hatching operations by the commissioners of the state of Maine. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 417–418. 1874.2

—— Culture of landlocked salmon. Forest & Stream, 1879, **12**, 484. 1879.1

—— Return of salmon planted in Penobscot river. Bull. U. S. Fish Comm. 1881 (1882), **1**, 271. 1882.1

Stimpson, *William* [1832–1872] On the deep-water fauna of lake Michigan. Amer. Naturalist, 1870, **4**, 402–405. 1870.1

Stingelin, *Theodor.* Die Schmarotzerthiere der schweizerischen Fische. Schweiz. Fischerei Zeitg., 1896, **4**, 315–323. Also separate; Pfäffikon-Zürich, 1896. 8 p. 8°. 1896.1

Stirling, *Archibald B.* Notice of a pike, *Esox lucius* Linn., in whose stomach a water hen and water ouzel were found. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 44–45. 1863.1

—— Notes on the fungus disease affecting salmon. Proc. Roy. Soc. Edinburgh, 1878, **9**, 726–732. *Ibid.*, **10**, 232–250; 370–378. — Rept. U. S. Fish Comm. 1878 (1880), **6**, 525–529; 531–536. 1878.1

—— Note on a curious habit of the *Malapterurus electricus.* Journ. Anat. Physiol., London, 1879, **13**, 350–352.

—— Note on a sea trout [*Salmo eriox* or *S. trutta*] from Carham ponds. Hist. Berwick. Nat. Club, 1879, **8**, 173–176. 1879.1

—— Die Pilzkrankheit der Fische. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 3–4. figs. 1879.2

Stirling, *J.* The propagation of the Salmonidæ. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 1. 1883.1

—— Trout-fishing on our Highland lochs; the causes of and the best remedies for its deterioration (In Fish and Fisheries, edited by David Herbert, p. 316–331. Edinburgh & London, 1883) 1883.2

Stirling, *William.* On the chemistry and histology of the digestive organs of fishes. Rept. Scot. Fisheries, 1884, **2**, Append. F, 31–45. 2 pls. 1884.1

—— On red and pale muscles in fishes. Rept. Fishery Board Scotland, 1885, 166–171. 3 pls. 1885.1

Stirton, *John.* On the occurrence of the fox-shark in the firth of Forth. Ann. Scottish Nat. Hist., 1900, 17–18. fig. 1900.1

Stitt, *J. Warren.* Diseased fish in Kentucky. Forest & Stream, 1880, **14**, 329. 1880.1

Stjernvall, *Hugo J.* Nordöstra kuusamo och sydöstra Kuolajärvi. En blick på förhållandena derstädes och i öfriga delar af Lappmarken. Meddel. Geogr. Fören., 1893, **1**, 211–246. map. 1893.1

Stobbs, *John T.* The marine beds in the Coal Measures of north Staffordshire, with notes on their palæontology by Dr. Wheelton Hind. Quart. Journ. Geol. Soc., 1905, **61**, 495–546. 3 pls. & 2 figs. 1905.1

Stobbs, *John T.*, & **Hind,** *Wheelton.* *See* **Hind & Stobbs.**

Stobbs, *John T.*, & **Ward,** *John.* *See* **Ward & Stobbs.**

Stock, *Thomas.* Note on a section recently exposed near Straiton. Trans. Edinburgh Geol. Soc., 1880, **3**, pt. 3, 294–298. 1880.1

—— On a spine (*Lophacanthus taylori* mihi, nov. gen. et sp. [*Pleuracanthus cylindricus*]) from the Coal Measures of Northumberland. Ann. Mag. Nat. Hist., 1880, 5. ser. **5**, 217–220. fig. Notices in Zeitschr. Gesam. Naturw., 1880, 5. ser. **5**, 217–220. — Neues Jahrb. Mineral., 1880, **2**, 391. fig. 1880.2

The Stock collection of Carboniferous fishes is now preserved in the Museum of Comparative Zoology at Harvard College, Cambridge, Mass.

—— On the discovery of a nearly entire Rhizodus in the Wardie shales. Geol. Mag., 1881, 2. dec. **8**, 77–78. — Trans. Edinb. Geol. Soc., **4**, 38–39. 1881.1

—— On some British specimens of the "Kammplatten" or "Kammleisten" of Professor Fritsch. Ann. Mag. Nat. Hist., 1881, 5. ser. **8**, 90–95. pl. 1881.2

—— Further observations on Kammplatten, and note on *Ctenoptychius pectinatus.* Ann. Mag. Nat. Hist., 1882, 5. ser. **9**, 253–257. pl. 1882.1

—— Notice of some discoveries recently made in Carboniferous vertebrate palæontology. Nature, 1882, **27**, 22. 1882.2

Records finding of "Diplodus" teeth with spines quite different from those of Pleuracanthus. Also Tristychius associated with Hybodus.

— On the structure and affinities of the genus Tristychius Agass. Ann. Mag. Nat. Hist., 1883, 5. ser. **12**, 177–190. pl. 1883.1

Stockard, *Charles R.* The development of *Fundulus heteroclitus* in solutions of lithium chlorid, with appendix on its development in fresh water. Journ. Exper. Zool., Baltimore, 1906, **3**, 99–120. 19 figs. Abstract in Arch. Entw.-Mech., Leipzig, **21**, 359. 1906.1

—— The development of the mouth and gills in *Bdellostoma stouti.* Amer. Journ. Anat., 1906, **5**, 481–517. 36 figs. 1906.2

—— The development of the thyroid gland in *Bdellostoma stouti.* Anat. Anz., 1906, **29**, 91–99. 8 figs. 1906.3

—— The artificial production of a single median eye in the fish embryo by means of sea-water solutions of magnesium chlorid. Arch. Entw.-Mech., Leipzig, 1907, **23**, 249–258. 8 figs. Abstract in Science, 1907, n. s. **25**, 783–784. 1907.1

—— The embryonic history of the lens in *Bdellostoma stouti* in relation to recent experiments. Amer. Journ. Anat., 1907, **6**, 511–515. 3 figs. 1907.2

—— The influence of external factors, chemical and physical, on the development of *Fundulus heteroclitus.* Journ. Exper. Zool., 1907, **4**, 165–201. 17 figs. Abstract in Science, 1907, n. s. **25**, 780–781. 1907.3

—— The influence of osmotic pressures. 6. Year Book Carnegie Inst., 1907, 119. 1907.4

—— Observations on the natural history of *Polyodon spathula.* Amer. Naturalist, 1907, **41**, 753–766. 3 figs. 1907.5

—— A note on the question of gill-position in myxinoids. Anat. Record, 1908, **2**, 336–337. 1908.1

—— The question of cyclopia, one-eyed monsters. Science, 1908, n. s. **28**, 455–456. 1908.2

Relates to Fundulus.

Stockard, *C. R.*

—— The artificial production and the development of one-eyed monsters. Science, 1909, n. s. **29**, 429. 1909.1

Relates to Fundulus.

—— The development of artificially produced cyclopean fish — "The magnesium embryo." Journ. Exper. Zool., 1909, **6**, 285–337. 63 figs. 1909.2

—— The influence of alcohol and other anesthetics on developing embryos. Proc. Soc. Exper. Biol. Med. N. Y., 1909, **7**, 1–2. 1909.3

—— The experimental production of various eye abnormalities and an analysis of the development of the primary parts of the eye. Arch. Vergleich. Ophthalm., 1910, **1**, 473–480. 2 figs. 1910.1

—— The independent origin and development of the crystalline lens. Amer. Journ. Anat., 1910, **10**, 393–423. 2 pls. & 28 figs. 1910.2

The lens in Fundulus develops independently of the optic cup; in Bdellostoma it develops in relation to the optic cup, disappearing if the cup loses contact.

—— The independent origin and self-differentiation of the lens of the eye. Science, 1910, n. s. **31**, 463. 1910.3

—— The influence of alcohol and other anæsthetics on embryonic development. Amer. Journ. Anat., 1910, **10**, 369–392. 20 figs. 1910.4

—— An experimental study of the origin of blood and vascular endothelium in the teleost embryo. Anat. Record, 1915, **9**, 124–127. 1915.1

Blood islands exist in yolk sac, erythrocytes arising from them and in stem vein. Vascular endothelium of almost universal distribution arising from mesenchyme, never gives rise to blood cells. Mitosis of erythroblasts.

—— A study of wandering mesenchymal cells on the living yolk-sac and their developmental products: chromatophores, vascular endothelium and blood cells. Amer. Journ. Anat., 1915, **18**, 525–594. 35 figs. 1915.2

Early outwandering into subgerminal cavity from embryonic shield (mainly caudal region). 4 types of cells differentiated indicate 4 different potentialities.

Stockmann, *Fr. J. J.* Memorial über die Seevogtei Sempach. Luzern, 1781. fol. 1781.1

Stockmann, *Ralph.* Die äussere Eikapsel der Forelle. Mitt. Embry. Inst. Wien, 1883, **2**, pt. 3, 195–199. 1883.1

Stockwell, *G. A.* Fishes and fishing of the Great Lakes. Maskinonge, pike perch, gar pike and sturgeon. Forest & Stream, 1875, **5**, 327. 1875.1

—— Fishes and fishing of the Great Lakes. The sisdowit and mackinaw trout. Forest & Stream, 1875, **5**, 307. 1875.2

—— Fishes and fishing of the Great Lakes. The whitefish. Forest & Stream, 1875, **5**, 293. 1875.3

—— Fishes and fishing of the Great Lakes. Bass, perch, herring and suckers. Forest & Stream, 1876, **5**, 343. 1876.1

—— Sharks and leviathans of the Great Lakes. The Continent, 1883, **3**, 105–110. 1883.1

An article on the gar-pike, sturgeon, mackinaw trout, muskallonge, mud-fish and catfish and mode of capture.

Stoddart, *William Walter* [1824–1880] *Ceratodus forsteri.* Proc. Bristol Nat. Soc., n. s., 1875, **1**, pt. 2, 145–149. 2 pls. 1875.1

Stöhr, *Philipp Adrian* [1849–1911] Ueber den Klappenapparat im Conus arteriosus der Selachier, Chimæren und Ganoiden. Morphol. Jahrb., 1876, **2**, 197–228. 2 pls. 1876.1

—— Ueber den Klappenapparat der Selachier, Chimæra und Ganoiden. 54. Jahresber. Schles. Ges. Vaterl. Cultur 1876 (1877), p. 44. 1877.1

—— Zur Entwicklungeschichte des Kopfskelets der Teleostier (In Festschrift Feier der 300-jährigen Bestehens des Julius-Maximilians-Universitäts zu Würzburg, vol. ii, no. 4. Leipzig, 1882. 23 p. pl. 4°) 1882.1

—— Die Entwickelung von Leber und Pankreas der Forelle. Anat. Anz., 1893, **8**, 205–208. 1893.1

—— Ueber die Entwickelung der Darmlymphknötchen. Anat. Anz. (Verh. Anat. Ges.), 1897, **13**, 47–54. 1897.1

—— Gedächtnisrede auf A. von Kölliker. Verh. Phys. Med. Ges. Wurzburg, 1906, n. s. **38**, no. 9. 22 p. pl. 1906.1

Stölter, *Georg Friedrich.* Ueber die möglichst gewinnereiche Benützung von Bächen und Teichen zur künstlichen Fortpflanzung von Fischen, sowie über die Zucht von Blutegeln in Sümpfen und sumpfigen Wiesen; eine national-ökonomische Abhandlung. Hildesheim, 1859. 8°. 1859.1

—— Weitere Mittheilungen aus der Praxis der künstlichen Fischzucht; im Anschluss an die Abhandlung über die möglichst gewinnreiche Benützung von Bächen und Teichen zur Piscicultur. Hildesheim, 1860. 8°. 1860.1

Stoffel, *F.* Die Fischereiverhältnisse des Bodensees. Bern, 1906. 359 p. 4 pls. 1906.1

Stokes, *John Lort* [1812–1885] Discoveries in Australia; with an account of the coast and rivers explored and surveyed during the voyage of H. M. S. "Beagle," in . . . 1837–43 . . . also a narrative of Capt. O. Stanley's visits to the Arafūra sea. 2 vols. London, 1846. illust. 8°. 1846.1

Vol. i, appendix, contains among other articles, Descriptions of six fish, by Sir J. Richardson.

—— Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 435. 1879.1

Stolk, *A. P. van.* Aan den Heer Fr. P. L. Pollen [naar aanleiding der bovengenoemde brochure] Rotterdam, 1870. pl. fol. 1870.1

Refers to Pollen, F. P. L., 1870.1, *supra.*

Stolk, *D. C.*, **Blytt,** *H. H. P.*, & others. *See* **Blytt,** *H. H. P.*, & others.

Stoll, *A. A.* *Nuria danrica* im Aquarium [Text in Russian] Naturfreund, St. Petersb., 1906, **1**, 207–209. 1906.1

—— Ueber Bastarde von Teleskopen und anderen Varietäten des Goldfisches [Text in Russian] Naturfreund, St. Petersb., 1907, **22**, 391–400. 1907.1

Stolley, *Ernst* [1869 —] *Leiacanthus opatowitzanus* v. Meyer im norddeutschen Muschelkalk. 14. Jahresber. Ver. Nat. Braunschweig, 1906, pt. 95. 1906.1

—— Ueber mesozoische Fischotolithen aus Norddeutschland. 3. Jahresber. Niedersächs. Geol. Ver., 1910, 246–257. pl. 1910.1

—— Ergänzende Bemerkungen zu dem Aufsatz über mesozoische Fischotolithen. 5. Jahresber. Niedersächs. Geol. Ver., 1912, 21–22. 1912.1

—— Ergänzende Bemerkungen zu dem Aufsatz über mesozoische Fischotolithen. Jahresber. Geol. Ver. Hannover 1912 (1913), **5**, 21–22. 1913.1

Stollreither, *A.* *Hemichromis bimaculatus.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 649–650. 1913.1

—— Etwas über Lebendgebärende, insbesondere *Gambusia holbrooki.* Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 329–332. fig. 1914.1

Stone, *Livingstone.* Who were the ancestors of the landlocked salmon? N. Y. Citizen & Round Table, 1871, **7**, 518. 1871.1

—— Age of young shad. N. Y. Citizen & Round Table, 1872, **9**, July 6. 1872.1

—— Care of alevins or trout fry with the yolk-sac attached. N. Y. Citizen & Round Table, 1872, **9**, May 18. 1872.2

—— Domesticated trout; treatise on trout-culture. Boston, 1872. 300 p. figs. 16°. 1872.3

2. ed. Boston, 1873. x, 347 p.
3. ed. Charlestown, N. H., & Boston, 1877. 367 p. pl. 12°. Italian translation, Milano, 1884.
4. ed. Charlestown, N. H., 1896. xiv, 367 p. 12°.

—— Fungus-disease of trout fry, constitutional weakness, etc. N. Y. Citizen & Round Table, 1872, **9**, May 25. 1872.4

—— Longevity of trout. N. Y. Citizen & Round Table, 1872, **8**, March 23. 1872.5

—— Rearing whitefish. N. Y. Citizen & Round Table, 1872, **8**, March 23. 1872.6

—— The Russian or dry method of impregnation. N. Y. Citizen & Round Table, 1872, **8**, March 9. 1872.7

—— Ueber Forellen-Züchtung. Circul. Deutsch. Fischerei Ver. 1873, no. 6, 232–234. 1873.1

—— Alphabetical list of American fish-culturists and of persons known as being interested in fish-culture. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 558–566. 1874.1

—— California salmon [*Oncorhynchus quinnat*] its rapidity of growth. Forest & Stream, 1874, **2**, 260. 1874.2

—— The introduction of eastern fish into the waters of the Pacific slope, together with an account of operations at the United States salmon breeding establishment on the McCloud river.

Stone, *L.*

California. Forest & Stream, 1874, **2**, 100–102. 1874.3

—— Is the yellow perch (*Perca flavescens*) a good fish to introduce into California? Forest & Stream, 1874, **2**, 84. 1874.4

—— Notes on the salmon of the Miramichi river. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 216–218. 1874.5

—— On the edible qualities of the Sacramento salmon. Forest & Stream, 1874, **1**, 331. 1874.6

—— On the salmon fisheries of the Sacramento river. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 374–379. 1874.7

—— Report of operations during 1872 at the United States salmon-hatching establishment on the McCloud river, and on the California Salmonidæ generally, etc. Rept. U. S. Fish Comm. 1872–73 (1874), **2** (Append. B. vi), 168–200. pl. 1874.8

—— Report on the transfer of shad from the Hudson river to the Sacramento. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 413–416. 1874.9

—— Sacramento salmon vs. eastern salmon. Amer. Sportsman, 1874, **14**, 198. 1874.10

—— Salmon breeding. The introduction of eastern fish into the waters of the Pacific slope, together with an account of operations at the United States salmon breeding establishments on the McCloud river, California. Proc. 3. Ann. Meet. Amer. Fish. Cult. Assoc., 1874, 9–22. 1874.11

—— Shipments of California salmon eggs. Forest & Stream, 1875, **5**, 197; 198. — Circul. Deutsch. Fischerei Ver., 1879, no. 3, 104–106. 1875.1

—— Habits of Pacific salmon. Forest & Stream, 1876, **5**, 372. 1876.1

—— Report of operations during 1874 at the U. S. salmon-hatching establishment on the McCloud river, California. Rept. U. S. Fish Comm. 1873–75 (1876), **3** (Append. B. xxii), 437–478. 1876.2

—— Report of operations in California in 1873. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 377–429. 1876.3

—— McCloud river hatching station. Forest & Stream, 1878, **11**, 203. 1878.1

—— Operations on the McCloud river in salmon breeding in 1875. Rept. U. S. Fish Comm. 1875–76 (1878), **4** (Append. C), 921–933. 1878.2

—— Operations on the McCloud river in salmon breeding in 1876. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 935–958. 1878.3

—— The salmon fisheries of the Columbia river. Rept. U. S. Fish Comm. 1875–76 (1878), **4** (Append. B), 801–823. 1878.4

—— Fish-culture operations in California. Forest & Stream, 1879, **13**, 685. 1879.1

—— The general subject of the packing and transportation of salmon eggs. Trans. Amer. Fisheries Soc. 1878 (1879), 16–22. 1879.2

—— Report of operations at the salmon-hatching station on the Clackamas river, Oregon, in 1877. Rept. U. S. Fish Comm. 1877 (1879), **5**, 783–796. 1879.3

—— Report of operations at the United States salmon-hatching station on the McCloud river, California, in 1877. Rept. U. S. Fish Comm. 1877 (1879), **5**, 797–810. 1879.4

—— Salmon eggs from the Pacific. Forest & Stream, 1879, **13**, 725. 1879.5

—— Salt and earth for trout fry. Chicago Field, 1879, **11**, 220. 1879.6

—— Do the spawning salmon ascending the Sacramento river all die without returning to the sea? Rept. U. S. Fish Comm. 1878 (1880), **6**, 817–818. 1880.1

—— Fischzucht in Amerika. Circul. Deutsch. Fischerei Ver., 1880, no. 4, 83–85. 1880.2

—— How the first shad were hatched. Forest & Stream, 1880, **15**, 186. 1880.3

—— Report of operations at the United States salmon-hatching station on the McCloud river, California, in 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 741–770. 1880.4

—— Mortality of McCloud river salmon in 1881. Bull. U. S. Fish Comm. 1881 (1882), **1**, 134. 1882.1

—— Report of operation at the United States trout ponds on the McCloud river, Cal., during the season of 1879. Rept. U. S. Fish Comm. 1879 (1882), **7**, 715–720. 1882.2

—— Report on overland trip to California with living fishes. Rept. U. S. Fish Comm. 1879 (1882), **7**, 637–644. 1882.3

—— Account of operations at the McCloud river fish-breeding stations of the United States Fish Commission, from 1872 to 1882, inclusive. Bull. U. S. Fish Comm. 1882 (1883), **2**, 217–236. 1883.1

—— Replies to questions of Herr von Behr, concerning *Salvelinus fontinalis* and *Salmo iridea*. Bull. U. S. Fish Comm. 1882 (1883), **2**, 9–12. 1883.2

—— Report of operations at the United States salmon-hatching station on the McCloud river, California, during the season of 1880. Rept. U. S. Fish Comm. 1880 (1883), **8**, 597–613. 1883.3

—— The report of operations at the United States salmon-breeding station on the McCloud river, California, during the season of 1881. Rept. U. S. Fish Comm. 1881 (1883), **9**, 1063–1078. 1883.4

—— Report of operations at the United States trout ponds in the McCloud river, California, during the season of 1880. Rept. U. S. Fish Comm. 1880 (1883), **8**, 615–621. 1883.5

—— Scarcity of salmon in the Little Spokane and other streams on the Pacific coast. Bull. U. S. Fish Comm. 1883, **3**, 476–477. 1883.6

—— The quinnat or California salmon (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 1, 479–485. pl. Washington, 1884) 1884.1

—— Report of operations at the salmon-breeding station of the United States Fish Commission on the McCloud river, California, during the season of 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 839–850. 1884.2

—— Report of operations at the trout-breeding station of the United States Fish Commission on the McCloud river, California, during the year 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 851–855. 1884.3

—— Report of operations at the United States trout ponds, McCloud river, California, for the season of 1881. Rept. U. S. Fish Comm. 1881 (1884), **9**, 1079–1083. 1884.4

—— La trota domestica. Manuale di troticultura. Traduzione condotta sulla terza edizione Americana da Ugolino Ugolini. Milano, 1884. xv, 424 p. illust. 8°. 1884.5

—— Weights of salmon taken at McCloud river station in 1880. Bull. U. S. Fish Comm. 1884, **4**, 178–179. 1884.6

—— The artificial propagation of salmon in the Columbia river basin. Trans. Amer. Fisheries Soc. 1884 (1885), 21–31. 1885.1

—— Explorations on the Columbia river from the head of Clark's fork to the Pacific ocean, made in the summer of 1883, with reference to the selection of a suitable place for establishing a salmon-breeding station. Rept. U. S. Fish Comm. 1883 (1885), **11**, 237–258. 1885.2

—— History of operations at the fish-hatching stations on the McCloud river, California, from the beginning, August, 1872, to October, 1884. Bull. U. S. Fish Comm. 1885, **5**, 28–31. 1885.3

—— Report of operations at the United States salmon-breeding station on the McCloud river, California, during the year 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 989–1000. 1885.4

—— Report of operations at the United States trout-breeding station on the McCloud river, California, during the year 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1001–1006. 1885.5

—— Segregation of the sexes of trout. Bull. U. S. Fish Comm. 1885, **5**, 448. 1885.6

—— Report of operations at the trout-breeding station on the McCloud river, California, during the season of 1884. Rept. U. S. Fish Comm. 1884 (1886), **12**, 161–179. 1886.1

—— Report of operations at the United States salmon-breeding station on the McCloud river, California, during the season of 1884. Rept. U. S. Fish Comm. 1884 (1886), **12**, 169–176. 1886.2

—— Report of operations at the United States salmon and trout stations on the McCloud river, California, during the season of 1885. Rept. U. S. Fish Comm. 1885 (1887), **13**, 131–140. 1887.1

Stone, *L.*

—— Best season for packing salmon on the Pacific coast. Bull. U. S. Fish Comm. 1887 (1889), **7**, 65–66. 1889.1

—— Report of operations at the United States salmon and trout stations on the McCloud river, California, for the years 1885–87. Rept. U. S. Fish Comm. 1886 (1889), **14**, 737–745. 1889.2

—— A national salmon park. Trans. Amer. Fisheries Soc. 1892 (1893), 149–162. 1893.1

—— The Chinook salmon: his non-feeding habits in fresh waters. Trans. Amer. Fisheries Soc. 1894 (1895), 26–34. 1895.1

—— The artificial propagation of salmon on the Pacific coast of the United States, with notes on the natural history of the quinnat salmon. Bulletin U. S. Fish Comm. 1896 (1897), **16**, 205–235. 16 pls. 1897.1

—— The origin of the American Fisheries Society. Trans. Amer. Fisheries Soc. 1898 (1899), 56–64. 1899.1

—— Den amerikanska insjöstörens lek. Tidskr., Jägare & Fisk., 1900, **8**, 213–216. 1900.1

—— The spawning habits of the lake sturgeon. Trans. Amer. Fisheries Soc. 1900 (1901), 118–123. 1901.1

—— Sturgeon hatching in the lake Champlain basin. Trans. Amer. Fisheries Soc. 1901 (1902), 137–143. 1902.1

Stone, *Witmer.* Fishes from Pocotaligo river, South Carolina. Copeia, 1914, no. 10, 1–2. 1914.1

Stopes, *C.* Palæolithic implements from the Shelly gravel pit at Swanscombe, Kent. Rept. Brit. Assoc. Adv. Sci., 73. meet., 1903, 803–804. 1903.1

Refers to bones of teleosts associated with palæolithic remains, p. 804.

Storch, *Otto.* Untersuchungen über die paarige Afterflosse der Schleierschwänze. Arbeit. Zool. Instit. Univ. Wien, 1911, **19**, 195–215. pl. 1911.1

—— Die modernen Heringsforschungen. Nat. Wochenschr., 1914, **29**, 625–631. 6 figs. 1914.1

Storer, *David Humphreys* [1804–1891] Description of a new species of the genus Gasterosteus [*G. mainensis*] Boston Journ. Nat. Hist., 1837, **1**, 464–465. 1837.1

—— Description of a new species of the genus Hydrargyra; with some additions to the "Catalogue of the fishes of Massachusetts" in Professor Hitchcock's report. Boston Journ. Nat. Hist., 1837, **1**, 416–417. 1837.2

—— An examination of the "Catalogue of the marine and freshwater fishes of Massachusetts, by J. V. C. Smith, M. D.," contained in Professor Hitchcock's "Report on the geology, mineralogy, &c., of Massachusetts." Boston Journ. Nat. Hist., 1837, **1**, 347–356. 1837.3

—— Report on the ichthyology and herpetology of Massachusetts (In Zoological and botanical survey of the State of Massachusetts, p. 36–50. Boston, 1839. 8°) 1839.1

Fishes, p. 36–48.

—— Remarks on the "Natural history of the fishes of Massachusetts, embracing a practical essay on angling," by J. V. C. Smith. Amer. Journ. Sci., 1839, **36**, 337–349. 1839.2

—— A report on the fishes of Massachusetts. Boston Journ. Nat. Hist., 1839, **2**, 289–558. Also separate; Boston, 1839. 3 pls. 8°. 1839.3

—— Reports on the fishes, reptiles and birds of Massachusetts. Boston, 1839. 426 p. 4 pls. 8°. 1839.4

Fishes of Massachusetts, p. 1–202. 3 pls.

—— Account of several fishes. Amer. Journ. Sci., 1840, **39**, 378. 1840.1

—— On fishes from Jamaica pond. Amer. Journ. Sci., 1840, **39**, 378–380. 1840.2

—— A notice of MacClelland's Indian Cyprinidæ. Amer. Journ. Sci., 1841, **41**, 92–103. — Calcutta Journ. Nat. Hist., **4**, 112–124. 1841.1

—— Supplement to the ichthyological report. Boston Journ. Nat. Hist., 1841, **3**, 267–273. 1841.2

—— Description of a new species of torpedo. Amer. Journ. Sci., 1843, **45**, 165–170. pl. — L'Institut, **11**, no. 518, 414. 1843.1

The form described is *Torpedo occidentalis*, largest of all known electric rays.

—— Notice of the discovery of an electrical fish on our coast. Amer. Journ. Sci., 1843, **44**, 213. — Ann. Mag. Nat. Hist., **11**, 326. 1843.2

—— On such parts of Dr. Dekay's report on the fishes of New York as relate to fishes found in Massachusetts. Amer. Journ. Sci., 1843, **45**, 275–284. — Proc. Nat. Hist. Soc. Boston, 1844, **1**, 120–123. 1843.3

—— Additional descriptions of, and observations on, the fishes of Massachusetts. Boston Journ. Nat. Hist., 1844, **4**, 175–190. 1844.1

—— Description of a new flat-fish. Proc. Boston Soc. Nat. Hist., 1844, **1**, 130–131. 1844.2

—— Description of *Hydrargyra formosa*. Proc. Boston Soc. Nat. Hist., 1844, **1**, 76. 1844.3

—— Descriptions of *Acipenser rubicundus*, *A. platyrhyncus* and *Rutilus storerianus*, accompanied with figures. Proc. Boston Soc. Nat. Hist., 1844, **1**, 71. 1844.4

—— Descriptions of two new species of fishes. Boston Journ. Nat. Hist., 1844, **4**, 58–62. 1844.5

—— Fishes from Mobile bay. Proc. Boston Soc. Nat. Hist., 1844, **1**, 202–203. 1844.6

—— Observations on fishes. Proc. Boston Soc. Nat. Hist., 1844, **1**, 53–54. 1844.7

Description of *Myliobatis bispinosus*, etc.

—— Paper on the fishes of Massachusetts. Proc. Boston Soc. Nat. Hist., 1844, **1**, 36. 1844.8

—— *Platessa glabra*, n. sp. Proc. Boston Soc. Nat. Hist., 1844, **1**, 130–131. 1844.9

—— Remarks on a deformed specimen of the *Platessa oblonga* Mitchill, on *Pleuronectes maculatus* Mitchill and *Orthagoriscus mola*. Proc. Boston Soc. Nat. Hist., 1844, **1**, 194–195. 1844.10

—— Remarks on an undescribed species of Lota from lake Winnipiseogee. Proc. Boston Soc. Nat. Hist., 1844, **1**, 20. 1844.11

—— Remarks on *Sphyræna borealis* and *Caranx chrysos*. Proc. Boston Soc. Nat. Hist., 1844, **1**, 148. 1844.12

—— Report of the curator of ichthyology of the Boston Society of Natural History. Proc. Boston Soc. Nat. Hist., 1844, **1**, 113. 1844.13

—— Report on a collection of fishes from Santa Cruz. Proc. Boston Soc. Nat. Hist., 1844, **1**, 38. 1844.14

—— Report on fishes from the Ganges presented by Mr. Reynolds. Proc. Boston Soc. Nat. Hist., 1844, **1**, 88. 1844.15

—— Report on fishes presented [to the Society] by Rev. Z. Thompson of Vermont. Proc. Boston Soc. Nat. Hist., 1844, **1**, 28. 1844.16

—— Three species of fishes. Proc. Boston Soc. Nat. Hist., 1844, **1**, 84. 1844.17

—— The *Torpedo nobiliana* Bonaparte, recently captured at Wellfleet, cape Cod. Proc. Boston Soc. Nat. Hist., 1844, **1**, 94. 1844.18

—— A synopsis of the fishes of North America. Mem. Amer. Acad. Arts Sci. Boston, 1846, **2**, 253–550. Also separate; Cambridge, 1846. 1846.1

—— [Note on Trichiurus from Massachusetts bay] Proc. Boston Soc. Nat. Hist., 1848, **2**, 85. 1848.1

—— Description of a new species of Leptocephalus [*L. gracilis*] Proc. Boston Soc. Nat. Hist., 1848, **2**, 76. 1848.2

—— Description of a new species of Syngnathus, brought from the western coast of California by Capt. Phelps. Proc. Boston Soc. Nat. Hist., 1848, **2**, 73. 1848.3

—— Description of hitherto undescribed fishes. Proc. Boston Soc. Nat. Hist., 1848, **2**, 47–49. 1848.4

New species of Etheostoma and Leuciscus.

—— Description of *Pœcilia olivacea*. Proc. Boston, Nat. Hist. Soc. 1848, **2**, 51. 1848.5

—— Description of *Prionotus pileatus*. Proc. Boston, Nat. Hist. Soc. 1848, **2**, 77–78. 1848.6

—— Descriptions of two new species of Alosa and one of Platessa. Proc. Boston Soc. Nat. Hist., 1848, **2**, 242–243. 1848.7

—— Exhibition of teeth of *Carcharias griseus* and *C. obscurus*. Proc. Boston Soc. Nat. Hist., 1848, **2**, 256. 1848.8

—— List of fishes of Ohio, prepared from the papers of J. P. Kirtland. Proc. Boston Soc. Nat. Hist., 1848, **2**, 103–105. 1848.9

—— The occurrence of *Palmurus perciformis* in Boston harbor. Proc. Boston Soc. Nat. Hist., 1848, **2**, 180. 1848.10

—— The occurrence of *Trygon hastata* and *Torpedo occidentalis* at Martha's

Storer, *D. H.*
Vineyard. Proc. Boston Soc. Nat. Hist., 1848, **2**, 170. 1848.11

—— On a living *Torpedo occidentalis*. Proc. Boston Soc. Nat. Hist., 1848, **2**, 71. 1848.12

—— On *Esox lucius*. Proc. Boston Nat. Hist. Soc., 1848, **2**, 105–106. 1848.13

—— Remarks on the specimen of Balistes belonging to the Salem Natural History Society, which was taken in August of the present year. Proc. Boston Soc. Nat. Hist., 1848, **2**, 71–72. 1848.14

—— A specimen of *Prionotus tribulus* Mitch. from . . . Massachusetts bay. Proc. Boston Soc. Nat. Hist., 1848, **2**, 51. 1848.15

—— Description of *Zygœna subarcuata*. Proc. Boston Soc. Nat. Hist., 1851, **3**, 70–71. 1851.1

—— On a new species of Carcharias [*C. atwoodi*] Proc. Boston Nat. Hist. Soc., 1851, **3**, 71–72. 1851.2

—— On *Motella caudacuta*. Proc. Boston Soc. Nat. Hist., 1851, **3**, 5. 1851.3

—— A history of the fishes of Massachusetts. Mem. Amer. Acad. Arts Sci. Boston, 1855, **5**, 49–92; 122–168; 257–296. *Ibid.*, 1858, **6**, 309–372. *Ibid.*, 1864, **8**, 389–434. *Ibid.*, 1867, **9**, pt. 1, 217–256. 39 pls. 1855.1

134 species described. Also reprinted in book form, with a supplement, in 1867. *See infra.*

—— A new species of fish [*Sebastes fasciatus*] from Provincetown, found in the harbor at that place. Proc. Boston Soc. Nat. Hist., 1856, **5**, 31. 1856.1

—— Description of a new species of Zeus [*Z. ocellatus*] Proc. Boston Nat. Hist. Soc., 1859, **6**, 385–386. 1859.1

—— A history of the fishes of Massachusetts. Cambridge & Boston, 1867. 287 p. 39 pls. 4°. 1867.1

Storer, *David Humphreys*, & **Peabody,** *W. B. O.* Reports on the fishes, reptiles and birds of Massachusetts. Boston, 1839. 8°. Abstract in Rev. Zool., 1841, 319. 1839.1

Storer, *Horatio Robinson*. *Carcharias atwoodi*, sp. nov. Proc. Boston Soc. Nat. Hist., 1851, **3**, 71–72. 1851.1

—— Description of *Etheostoma linsleyi*. Proc. Boston Nat. Hist. Soc., 1854, **4**, 37–38. 1854.1

—— Observations on the fishes of Nova Scotia and Labrador, with descriptions of new species. Boston Journ. Nat. Hist., 1857, **6**, 247–270. Also separate; Boston, 1857. 24 p. pls. 8°. Abstract in Proc. Boston Nat. Hist. Soc., **3**, 327–328. 1857.1

—— Specimens of a smelt from Squam lake, N. H. Proc. Boston Soc. Nat. Hist., 1859, **6**, 243. 1859.1

Stork, *H.* Forellenverkauf nach Paris. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 467. 1880.1

Storm, *Vilhelm J.* Throndhjemsfjordens fiske. Throndhjem, 1883. 8°. 1883.1

—— Bidrag til kundskab om throndhjemsfjordens. Part 5. Om de i fjorden forekomne fiske. Norske Selsk. Skrift., 1884, 1–48. 1884.1

Storms, *Raymond*. Note sur un nouveau genre de poisson fossile de l'argile rupélienne. Ann. Soc. Géol. Belgique, 1886, **13**, 261–266. 2 pls. 1886.1

—— Notes sur les poissons fossiles du terrain rupélien. Bull. Soc. Belge Géol. Paléont., 1887, **1** (*Mém*), 98–112. *Ibid.*, 1893, **7**, 161–171. pl. & 9 figs. *Ibid.*, 1894, **8**, 67–82. pl. *Ibid.*, 1894, **8** (*Proc. Verb.*), 260–262. 1893.1

—— The adhesive disk of Echeneis. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 67–76. 1888.1

—— Sur la présence d'un poisson du genre Thynnus dans les dépots pliocènes des environs d'Anvers. Bull. Soc. Belge Géol. Paléont., 1889, **3** (*Mém.*), 163–178. pl. 1889.1

—— Note sur l'ichthyologie fossile. Bull. Soc. Belge Géol. Paléont., 1891, **5**, 114–128; 142–157. 1891.1

—— Sur le *Cybium* (*Enchodus*) *bleekeri* du terrain bruxellien. Bull. Soc. Belge Géol. Paléont., 1892, **6** (*Mém.*), 3–14. pl. 1892.1

—— Troisième note sur les poissons du terrain rupélien. Mém. Soc. Belge Géol. Paléont., 1894, **8**, 67–82. pl. 1894.1

—— Sur un Cybium nouveau du terrain bruxellien (*Cybium proosti*) Bull. Soc. Belge Géol. Paléont., 1895, **9**

(*Proc. Verb.*), 160–162. — Ann. Soc. Sci. Bruxelles, 1896, **20**, 32–34. — Rev. des Questions Scient., 2. sér. **12**, 242–247. 3 figs. 1895.1

—— Première note sur les poissons wemmeliens (Eocène supérieur) de la Belgique. Bull. Soc. Belge Géol. Paléont., 1896, **10** (*Mém.*), 198–240. 4 pls. & 2 figs. 1896.1

—— Quatrième note sur les poissons de l'argile rupélienne. Bull. Soc. Belge Geol. Paléont., 1896, **8**, 260–262. 1896.2

—— Poissons du Pliocène poederlien étudiés par R. Storms, recueillis au bassin America (Anstruweel-Anvers) Bull. Soc. Belge Géol. Paléont. 1900 (1901), **14**, 332. 1901.1

—— Sur un Charcharodon du terrain bruxellien (Mémoire posthume) Bull. Soc. Belge Géol. Paléont., 1901, **15** (*Mém.*), 259–267. pl. 1901.2

Storms, *Raymond,* & **Dollo,** *Louis.* *See* **Dollo & Storms.**

Storrow, *Benjamin.* A case of spinal curvature in a codling. Rept. Northumberland Sea Fishery Comm. 1909 (1910), 37–39. pl. & fig. 1910.1

—— The presence of a sesamoid articular in some of the common fishes. Rept. Northumberland Sea Fishery Comm. 1909 (1910), 36. pl. 1910.2

—— The spawning of the plaice. Rept. Northumberland Sea Fisheries Comm., 1911, 59–60. pl. 1911.1

—— The spawning of the whiting. Rept. Northumberland Sea Fisheries Comm., 1913, 84. pl. 1913.1

—— Herring races. B. Size, age, growth and maturity. Rept. Dove Marine Lab. Cullercoats, 1914, n. s. no. 3, 59–72. 2 pls. 1914.1

—— Herring investigations. Size, age and maturity. Rept. Dove Marine Lab. Cullercoats, 1915, n. s. 16–37. 3 pls. 1915.1

The age and growth of the pilchard, p. 54–56.

Storrow, *Benjamin,* & **Meek,** *A.* *See* **Meek & Storrow.**

Stossich, *Mihláy* [= *Michele*] Nota sopra l'*Orthagoriscus planci* Bp. [*O. truncatus*] Boll. Soc. Adriat. Sci. Nat., 1880, **6**, 163–164. 1880.1

—— Prospetto della fauna del mare Adriatico. Trieste, 1880–85. 1880.2

Stover, *E. S.* Rearing carp in alkaline water. Bull. U. S. Fish Comm. 1884, **4**, 426–427. 1884.1

—— Raising carp in a supposed alkaline water. Bull. U. S. Fish Comm. 1885, **5**, 427. 1885.1

Strachly, O. Die Karyomitose bei abnormer Entwicklung des Forelleneies. Mitt. Embr. Inst. Univ. Wien, 1892, 2. ser. **5**, 20–22. 1892.1

Strack, (*Prof.*) —— Naturgeschichte in Bildern mit erläuternden Text . . . 5 vols. Düsseldorf, 1819–1826. 1819.1

Fische, vol. iv. 144 pls.

Stranahan, *J. J.* Transplanting fish. Trans. Amer. Fisheries Soc. 1891 (1892), 46–47. 1892.1

—— The handling of adhesive eggs. Fisheries Gazette, 1894, **11**, no. 40. 1894.1

—— The microscope as practically applied to fish-culture. Trans. Amer. Fisheries Soc. 1898 (1899), 88–92. 2 pls. 1899.1

—— Lack of fertilization vs. arrested segmentation. Trans. Amer. Fisheries Soc. 1900 (1901), 173–175. 1901.1

—— Fish-culture on the farm. Trans. Amer. Fisheries Soc. 1902 (1903), 130–135. 1903.1

—— Three main points necessary to successful bass culture. Trans. Amer. Fisheries Soc. 1903 (1904), 126–130. 1904.1

—— Assorting brood black bass to prevent cannibalism. Trans. Amer. Fisheries Soc. 1906 (1907), 183–184. 1907.1

—— Some peculiarities in spawning habits of large-mouth black bass. Trans. Amer. Fisheries Soc. 1908 (1909), 157–159. 1909.1

—— Some observations on sunfish culture. Trans. Amer. Fisheries Soc. 1911 (1912), 183–188. 1912.1

Strand, *Embrik.* Pisces für 1898. Jahresberichte. Arch. Naturgesch., 1905, 71. Jahrg., **2**, pt. 1. 72 p. 1905.1

For the record of Pisces for 1911, *see* Wundsch, H. H., 1912.1, *infra.*

—— Pisces für 1899. Jahresberichte. Arch. Naturgesch., 1905, 71. Jahrg., **2**, pt. 1. 52 p. 1905.2

Strand, *E.*
Pisces für 1906. Jahresberichte. Arch. Naturschr., 1907, 73. Jahrg., **2**, pt. 1. 86 p. 1907.1

Strang, *James J.* Some remarks on the natural history of Beaver islands, Michigan. 9. Ann. Rept. Smithson. Inst. 1854 (1855), 282. 1855.1

Habits of the sturgeon, siscowit, etc.

Strasser, *Hans.* Zur Lehre von der Ortsbewegung der Fische durch Biegungen des Leibes und der unpaaren Flossen, mit Berücksichtigung verwandter Locomotionsformen. Stuttgart, 1882. vi, 124 p. illust. 8°. 1882.1

—— Ueber die Ortsbewegung der Fische. Jahresber. Schles. Ges. Vaterl. Cultur, Breslau, 1883, **9**, 147–150. 1883.1

Straub, *Walther.* Toxikologische Untersuchungen am Selachierherzen. Zeitschr. Biol., München, 1901, **42**, 363–376. 2 pls. 1901.1

Strauss, —— Beschreibung der künstlichen Fischzucht. Straubling, 1879. pl. 8°. 1879.1

Straznicky, *E. R.* Catalogue of the library of the American geographical and statistical society. New York, 1857. 32 p. 1857.1

Strecker, *C.* Ueber die Condylen des Hinterhauptes. Arch. Anat. Physiol. (*Anat. Abth.*), 1887, 301–338. 1887.1

Fishes, p. 301–303.

Streets, *Thomas Hale.* Contributions to the natural history of the Hawaiian and Fanning islands and Lower California. Bull. U. S. Nat. Mus., 1878, **7**, 43–102. — Smithson. Misc. Coll., 1878, **13**. 1878.1

Fishes, p. 43–94.

Streiff, R. Die geographische Verbreitung der Fische in der Ostsee. Dorrespbl. Nat. Ver. Riga, 1910, no. 53, 25–42. 1910.1

Stricht, *Omer van der.* La maturation et la fécondation de l'œuf *d'Amphioxus* [*Branchiostomus*] *lanceolatus*. Arch. Biol., Gand, 1896, **14**, fasc. 3, 469–489; 490–495. 1896.1

—— Origine des globules sanguins de l'aorte et de l'endocarde chez les embryons de sélaciens. C. R. Mém. Soc. Biol. Paris, 1896, 10. sér. **3**, 287–290. 1896.2

Stricht, *O. van der,* & **Heymanns,** *J. F.* *See* **Heymanns & Stricht.**

Stricker, *F.* Plattenmodelle zur Entwicklung von Darm, Leber, Pankreas und Schwimmblase der Forelle. Leipzig, 1899. 26 p. 3 pls. 1899.1

Stricker, *Salomon.* Untersuchungen über die Entwickelung der Bachforelle. Sitzber. Akad. Wiss. Wien, 1865, **51**, Abth. 2, 546–554. — Untersuch. Naturl. (Moleschott), 1870, **10**, 255–265. Also separate; Wien, 1865. 9 p. 8°. 1865.1

Stricker, *W.* Acclimatisation des Wels (*Silurus glanis*) in England. Zool. Garten, 1869, 10. Jahrg., 255. 1869.1

—— Abnahme des Fischreichthums in Frankreich. Zool. Garten, 1875, 16. Jahrg., 195–196. 1875.1

Strickland, *Arthur.* On the occurrence of *Squalus spinosus* Linn., on the coast of Yorkshire. Ann. Mag. Nat. Hist., 1840, **4**, 315–318. — Journ. Nat. Hist. Calcutta, **1**, 285–287. 1840.1

Strickland, *Hugh Edwin* [1811–1853] Rules for zoological nomenclature, etc. Rept. Brit. Assoc. Adv. Sci., 12. meet., 1842, 105–121. Reprint, London, 1863. 26 p. 1842.1

—— (*editor*) Bibliographia zoologiæ et geologiæ . . . by . . . L. Agassiz, corrected, enlarged and edited by H. E. Strickland. 4 vols. London, Ray Society, 1848–1854. 8°. 1848.1

Strickland, *J. Goodall,* & **Earle,** *H. G.* The structure of the pancreas in relation to function. Brit. Med. Journ., 1909, **2**, 681–684. 4 figs. 1909.1

Strieker, *M.* Ueber die Zucht von *Pœcilia amazonica* Garm. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 347. 1906.1

—— Ueber einen merkwürdigen Geburtsakt bei *Jenynsia lineata*. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 321–322. 1906.2

—— Erfahrungen bei der Zucht des *Girardinus januarius* var.? Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 340–341. fig. 1909.1

—— *Pœcilia amazonica* Garman. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 531–532. 1909.2

—— Zuchterfolge mit einer noch unbestimmten Tetragonopterus - Art. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 425–426. 1909.3

Strixner, *G.* Beobachtungen bei der Makropodenzucht. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 619–621. 1914.1

Strodtmann, *S.* Laichen und Wandern der Ostseefische. II. Bericht. Wiss. Meeresuntersuch. Kiel (*Abt. Helgoland*), 1906, n. s. **7**, 133–216. 6 figs. 1906.1

—— Eier und Larven der im Winter laichenden Fische der Nordsee. I. Einleitung und Uebersicht über die Fahrten nebst Fangtabellen. Wiss. Meeresuntersuch. Kiel (*Abt. Helgoland*), 1908, n. s. **8**, 177–189. 5 figs. 1908.1

—— Die Wanderungen der Fische in der Ostsee. Verh. Naturw. Ver. Hamburg, 1911, 3. ser. **18**, lv–lvii. 1911.1

—— Anpassung der pelagischen Fischeier an den senkenden Salzgehalt des Meeres. Verh. Nat. Ver., Hamburg, 1915, ser. 3, **22**, l–li. 1915.1

Strodtmann, *S.*, & **Ehrenbaum,** *Ernst. See* **Ehrenbaum & Strodtmann.**

Ströbel, *L.* Schädlichkeit der Karpfenlaus (Argulus) im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 658–659. fig. 1914.1

Strömman, *H.* Leptocephalids in the University Museum of Upsala. Inaug. Dissert. Upsala, 1896. 53 p. 5 pls. 8°. 1896.1

Strøm, *Hans* [1726–1797] Physisk og oekonomisk beskrivelse over Fögderiet Söndmör beliggende i Bergens stift i Norge. 2 vols. Soröe, 1762–64. figs. 4°. 1762.1

—— Beschreibung eines norwegischen Fisches, Bürkelauge [*Gadus dipterygius*] Drontheim. Ges. Schrift., 1767, **3**, 400–405. pl. 1767.1

—— Om haamaeren (*Squalus* [*Carcharias*] *glaucus*) og haastörjen [*Thynnus vulgaris*] Nya Saml. Norske Vid. Selsk. Skrift., 1788, **2**, 335–344. pl. 1788.1

—— Om en rød materie paa fiskedamme. Skriv. Nat. Selsk. Kiöbenhavn, 1790, **1**, pt. 2, 18–25. — Phil. Mag. (Tilloch), **4**, 397–402. 1790.1

—— Om et par rare fiske. Skriv. Nat. Selsk. Kiöbenhavn, 1792, **2**, pt. 2, 12–16. 1792.1

Strombeck, —— *von.* Ueber junge Aale. Natur, 1876, n. s. **2**, 230. 1876.1

Stromer von Riechenbach, (*Baron*) *Ernst* [1871 —] Die Geologie der deutschen Schutzgebiete in Afrika. München & Leipzig, 1896. viii, 203 p. illust. 8°. 1896.1

—— Afrika als Entstehungszentrum für Säugethiere. Zeitschr. Deutsch. Geol. Ges. (Protokoll), 1903, 61–67. 1903.1

—— Haifischzähne aus dem unteren Mokattam bei Wasta in Egypten. Neues Jahrb. Mineral., 1903, **1**, 29–41. pl. 1903.2

—— Ein Beitrag zur Kenntnis des Myliobatiden-Gebisses. Zeitschr. Deutsch. Geol. Ges., 1904, **56**, 203–207. 3 figs. 1904.1

—— Myliobatiden aus dem Mitteleocän der bayerischen Alpen. Zeitschr. Deutsch. Geol. Ges., 1904, **56**, 249–267. pl. & 2 figs. 1904.2

—— Nematognathi aus dem Fajûm und dem Natronthale in Aegypten. Neues Jahrb. Mineral., 1904, **1**, 1–7. pl. 1904.3

—— Die Fischreste des mittleren und oberen Eocäns von Aegypten. I. Die Selachier. A. Myliobatiden und Pristiden. B. Squaloidei. II. Teleostomi. A. Ganoidei. Beitr. Paläont. Geol. Oesterreich-Ungarns, 1905, **18**, 37–58; 163–192. 4 pls. 1905.1

—— Die Zähne der niedersten und der geologisch ältesten Wirbeltiere. Nat. Wochenschr., 1905, **20**, 214–216. fig. 1905.2

—— Lehrbuch der Paläozoologie. 2 Teile. München & Leipzig, 1909. illust. 8°. 1909.1

Forming a volume of the series "Naturwissenschaft und Technik in Lehre und Forschung . . . herausgegeben von F. Doflein & K. T. Fischer." Fishes are treated in part ii, p. 15–54.

—— Reptilien- und Fischreste aus dem marinen Alttertiär von Südtogo (Westafrika) Zeitschr. Deutsch. Geol. Ges., 1910, **62**, 478–507. pl. & 4 figs. 1910.1

—— Ueber das Gebiss der Lepidosirenidæ und die Verbreitung tertiärer und mesozoischer Lungenfische (In Festschrift zum sechzigsten Geburtstag von Richard Hertwig, vol. ii, p. 611–624. pl. Jena, 1910. 3 vols.) 1910.2

—— Ueber Relikten im indopazifischen Gebiete. Centralbl. Mineral. Geol. Pal., 1910, 798–802. 1910.3

Stromer, *E.*

—— Funde fossiler Fische in dem tropischen Westafrika. Centralbl. Mineral. Geol. Pal., 1912, 87–88. 1912.1

—— Funde fossiler Wirbeltiere in den deutschen Schutzgebieten in Afrika. Nat. Wochenschr., 1914, **29**, 760–762. 2 figs. 1914.1

—— Mitteilungen über Wirbeltierreste aus dem Mittelpliocän des Natrontales (Aegypten) Dipnoi: Protopterus. Zeitschr. Deutsch. Geol. Ges., 1914, **66** *B*, 420–425. 4 figs. 1914.2

—— Eberhard Fraas, mit einem Porträt und Verzeichnis seiner wichtigsten Veröffentlichungen. Centralbl. Mineral. Geol. Pal., 1915, no. 12, 353–359. 1915.1

Strong, *Oliver S.* (*translator*) The development of the cranial nerves of vertebrates, by Carl von Kupffer. Journ. Neurol., 1891, **1**, 246–264; 315–332. pl. 1891.1

—— The cranial nerves of *Squalus acanthias*. Science, 1903, n. s. **17**, 254–255. — Biol. Bull. Woods Hole, 1904, **6**, 314. 1903.1

Stropahl, *E.* Die Schleienzucht, etc. Stettin, 1906. viii, 63 p. 8 pls. 1906.1

Strough, *Arthur B.* The St. Lawrence reservation or International Park. 7. Ann. Rept. Forest, Fish & Game Comm. New York 1901 (1902), 71–86. pls. 1902.1

Strubberg, *A.* The metamorphosis of elvers as influenced by outward conditions. Some experiments. Meddel. Havunders. Kjøbenhavn, 1913, **4**, no. 3 (Ser. Fisk.), 11. 1913.1

Strubin, *K.* Neue Untersuchungen über Keuper und Lias bei Niederschönthal (Basler Tafeljura) Verh. Nat. Ges. Basel, 1902, **13**, 586–602. 2 figs. 1902.1

Struck, *C.* Zur Naturgeschichte des Schlammpitzgers *Cobitis* [*Misgurnus*] *fossilis* L. Arch. Ver. Freund. Mecklenburg, 1869, 22. Jahrg., 121–124. 1869.1

Struck, *H.* Die Wirkung von Wind, Wasserbewegung und Durchlichtung auf die Fische und die Fischerei. Zeitschr. Fischerei, Berlin, 1911, **15**, 8–16. 1911.1

Struck, *H.*, **Mahnkopf,** *E.*, & **Kegel,** *W.* Aus der Praxis der Binnensee- und Flussfischerei. Neudamm, 1907. 8°. 1907.1

Struck, *Wilhelm.* Die Befestigung der Zähne im Bereich der Wirbeltierreihe. Deutsche Monatsch. Zahnheilkde., 1915, 33. Jahrg., 135–143. 12 figs. 1915.1

Struckmann, *Karl Eberhard Friedrich* [1833–1898] Fische und Saurier aus dem Muschelkalk von Warberg. [n. pl.] 1861. 1861.1

—— Notiz über die Fisch- und Saurier-Reste aus dem oberen Muschelkalke von Warberg am Elm im Herzogthum Braunschweig. Zeitschr. Deutsch. Geol. Ges., 1871, **23**, 412–416. — Zeitschr. Gesamt. Naturw. Halle, **39**, 92. 1871.1

Strüver, *Johannes Karl Theodor* [1842 —] Beschreibung des *Heterodontus philippii* Bl., mit Rücksicht auf seinen fossilen Verwandten. Nova Acta Akad. Leop.-Carol. 1864, **23**, 1–32. 2 pls. Also separate; Jena, 1865. pls. 4°. 1864.1

—— Die fossilen Fische aus dem oberen Keupersandstein von Coburg. Inaug. Dissert. Göttingen & Berlin, 1864. 30 p. 8°. — Zeitschr. Deutsch. Geol. Ges., 1864, **16**, 303–330. Abstract in Neues Jahrb. Mineral., 1865, 506–507. pl. 1865.1

Strüvy, *R.* Carp culture in east Prussia. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 552–555. 1876.1

Strugnell, *W. Bishop*, & **Witchell,** *C. A.* *See* **Witchell & Strugnell.**

Strunz, *Franz.* Naturbetrachtung und Naturerkenntniss im Altertum. Eine Entwickelungsgeschichte der antiken Naturwissenschaften. Hamburg & Leipzig, 1904. 168 p. 8°. 1904.1

Strussenfelt, *Alexander Michel von.* Beschreibung und Abbildung zwei neuer Fische (*Gadus cimbrius* u. *G. mustela*) [*Motella cimbria* und *M. tricirrhata* Cuv.] Abh. Schwed. Akad., 1773, **35**, 21–25. pl. 1773.1

—— Beskrifning på tvenne fiskar af Torskslägtet. Handl. Svenska Vet. Akad., 1773, 22. fig. 1773.2

Strzelecki, *A.*, & **Baratyński,** *L.* Gospodarstwo rybne i urzadzenie stawów. Warzawa, 1877. 418 p. 8°. 1877.1

Stuart, *Murray.* Fossil fish from the Pegu system, Burma. Rec. Geol. Surv. India, 1910, **38**, 292–301. 3 pls. 1910.1

Stubbs, *F. J.* Notes on rare fishes sold for food in east London. Zoologist, 1913, 4. ser. **17,** 377–381. 1913.1

Stuck, *Gottlieb H.* Gottlieb Heinrich Stuck's . . . Verzeichnis von ältern und neuern Land- und Reisebeschreibungen. Ein Versuch eines Hauptstücks der geographischen Litteratur mit einem vollständigen Realregister. Halle, 1784–1787. Erster Teil, 1784. 504 p. Zweiter Teil, 1787. 223 p. 1784.1

Stuckenberg, *A.* *See* **Shtukenbergh,** *A. A.*

Stuckens, *Maurice.* Note sur la ventouse abdominale. Bull. Acad. Belgique, 1884, 3. sér. **8,** no. 7, 13 p. pl. 1884.1

Studer, *Bernhard* [1794–1887] Index der Petrographie und Stratigraphie der Schweiz und ihrer Umgebungen. Bern, 1872. v, 272 p. 8°. 1872.1

Studer, *Theophil* [1845—] (*editor*) Die Forschungsreise S. M. S. " Gazelle " . . . 1874 bis 1876 . . . 1889. 4°. 1889.1

3. Theil. Zoologie und Geologie.

—— Ueber fossile Knochen vom Wasi-Natrun, Unteregypten. Mitth. Nat. Ges. Bern 1898 (1899), 72–77. 1899.1

—— La mortalità degli agoni (*Alosa finta*) nel lago Ceresio. Acquicolt. Lombarda, Milano, 1902, **4,** 116. 1902.1

—— Die Bedeutung L. Agassiz für die zoologische Wissenschaft. Actes Soc. Helvét. Sci. Nat., 90. sess., 1908, **1,** 194–204. 1908.1

See also references under Eastman, C. R., 1898.1, Hussakof, L., 1910.2, and Jordan, D. S., 1898.1, *supra.*

Studnička, *František József* [1836–1903] Ueber eine eigenthümliche Form des Sehnerven bei *Syngnathus acus.* Sitzber. K. Böhmische Ges. Wiss., 1901, no. 11. 9 p. figs. 1901.1

Studnička, *František Karel.* Příspěvky k morfologii parietálnich orgánů kraniotů. Sitzber. K. Böhmische Ges. Wiss., Prag, 1893, no. 50, 1–12. pl. 1893.1

—— Sur les organes pariétaux de *Petromyzon planeri.* Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1893, no. 1, 1–50. 3 pls. & 7 figs. 1893.2

—— Zur Morphologie der Parietalorgane der Cranioten. Zool. Centralbl., 1893, no. 7. 2 p. 1893.3

—— Eine Antwort auf die Bemerkungen R. Burckhardt's zu meiner vorläufigen Mitteilung über das Vorderhirn der Cranioten. Anat. Anz., 1894, **9,** 691–693. 1894.1

—— Bemerkungen zu den Aufsatze: " Das Vorderhirn der Cranioten " von Rabl-Rückhard. Anat. Anz., 1894, **10,** 130–137. 1894.2

—— Zur Lösung einiger Fragen aus der Morphologie des Vorderhirnes der Cranioten. Anat. Anz., 1894, **9,** 307–320. 2 pls. 1894.3

—— Zur Geschichte des " Cortex cerebri." Verh. Anat. Ges. 8. Vers. Strassburg, 1894, 193–198. fig. 1894.4

—— Zur Lösung einiger Fragen aus der Morphologie des Vorderhirnes der Cranioten. Anat. Anz., 1894, **9,** 307–320. 2 pls. 1894.5

—— Beiträge zur Anatomie und Entwicklungsgeschichte des Vorderhirns des Cranioten. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1895, no. 33. 42 p. 7 pls. 1895.1

—— Ein Beitrag zur vergleichenden Histologie und Histogenese des Rückenmarkes. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1895, no. 51. 32 p. 3 pls. 1895.2

—— Ueber die terminale Partie des Rückenmarkes. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1895, no. 1. 8 p. pl. 1895.3

—— Zur Anatomie der sogenannten Paraphyse des Wirbelthiergehirns. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1895, no. 5. 13 p. pl. 1895.4

—— Studien über den Bau des Sehnerven der Wirbelthiere. Jena. Zeitschr. Naturw., 1897, **31** (n. s. **24**), 1–28. 2 pls. 1897.1

—— Ueber das Gewebe der Chorda dorsalis und den sogenannten Chordaknorpel. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1897, no. 45, 47–71. pl. 1897.2

—— Ueber das Vorhandensein von intercellulären Verbindungen im Chordagewebe. Zool. Anz., 1897, **20,** no. 538, 286–293. 2 figs. 1897.3

—— Ueber die Histologie und Histogenesis des Körpers bei Cyclostomen. Arch. Mikr. Anat., 1897, **48,** 4. Heft, 605–644. 2 pls. 1897.4

—— Ueber die Structur der sogenannten Cuticula und die Bildung dersel-

Studnička, *F. K.*
ben aus den intercellulären Verbindungen in der Epidermis. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1897. 11 p. 1897.5

—— Ueber verknöpfelte Fasern im Bundgewebe einiger Thiere. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1897. no. 65. 7 p. 1897.6

—— Die Knorpelkapseln in den Knorpeln von Petromyzon. Anat. Anz., 1898, **14**, 283–288. 1898.1

—— Noch einige Worte zu meinen Abhandlungen über die Anatomie des Vorderhirns. Anat. Anz., 1898, **14**, 561–569. 1898.2

—— Untersuchungen über den Bau der Sehnerven der Wirbeltiere. Jena. Zeitschr. Naturw. 1897 (1898), **31**, 1–25. 2 pls. 1898.3

—— Weitere Bemerkungen über das Knorpelgewebe der Cyclostomen und seine Histogenese. Arch. Mikr. Anat., 1898, **51**, 452–560. Abstract in Journ. Roy. Micr. Soc., 1898, pt. 3, 290. 1898.4

—— Der Reissner'sche Faden aus dem Centralkanal des Rückenmarkes und sein Verhalten in dem Ventriculus [Sinus] terminalis. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1899, no. 36, 1–10. 7 figs. 1899.1

—— Ueber das Ependym des Centralnervensystems der Wirbelthiere. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1899. 7 p. 1899.2

—— Ueber den feineren Bau der Parietalorgane von *Petromyzon marinus* L. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1899, no. 37, 1–17. pl. & 2 figs. Review in Journ. Roy. Micr. Soc., 1900, 308–309. — Zool. Centralbl., 7. Jahrg., no. 17–18, 618–621. 1899.3

—— Ueber Flimmer und Cuticularzellen mit besonderer Berücksichtigung der Centrosomenfrage. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1899. 22 p. pl. 1899.4

—— Untersuchungen über den Bau des Ependyms der nervösen Centralorgane. Anat. Hefte, 1899, Abth. 1, **15**, 303–431, 10 pls. & 13 figs. 1899.5

—— Zur Kritik einiger Angaben über die Existenz eines Parietalauges bei *Myxine glutinosa.* Sitzber. K. Böhmisch. Ges. Wiss., Prag 1898 (1899), no. 21. 4 p. 1899.6

—— Beiträge zur Kenntniss der Ganglienzellen. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1900–1903. 1900.1

i. Ein neuer Befund von Centrosomen; die intracellulären Kanälchen. Sitzber. K. Bohmisch. Ges. Wiss., Prag, 1900, no. 16. 6 p. fig.

ii. Einige Bemerkungen über die feinere Struktur der Ganglienzellen aus dem Lobus electricus von *Torpedo marmorata. Ibid.*, 1901, no. 15. 15 p. pl.

iii. Ueber endocelluläre und pericelluläre Blutkapillaren der grossen Ganglienzellen von Lophius. *Ibid.*, 1903, no. 41. 12 p. pl. & fig.

—— Zur Kenntniss der Parietalorgane und der sogenannten Paraphyse der niederen Wirbeltiere. Verh. Anat. Ges., Jena, 1900, 101–110. figs. 1900.2

—— Einige Bemerkungen zur Histologie der Hypophysis cerebri. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1901, no. 32, 1–7. fig. 1901.1

—— Ueber die erste Anlage der Grosshirnhemisphären am Wirbeltiergehirne. Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1901, no. **14**, 1–33. 11 figs. 1901.2

—— Ueber eine eigentümliche Form des Sehnerven bei *Syngnathus acus.* Sitzber. K. Böhmisch. Ges. Wiss., Prag, 1901, no. **11**, 1–9. 4 figs. 1901.3

—— Die Analogien der Protoplasma-Faserungen der Epithel- und Chordazellen mit Bindegewebefasern. Sitzber. K. Böhmisch. Ges. Wiss., Wien, 1902, no. 48. 9 p. pl. 1902.1

—— Ueber das Epithel der Mundhöhle von *Chimæra monstrosa*, mit besonderer Berücksichtigung der Lymphbahnen desselben. Bibliogr. Anat., Paris, 1902, **11**, 217–233. 5 figs. 1902.2

—— Beiträge zur Kenntniss der Ganglienzellen. III. Ueber endocelluläre und pericelluläre Blutkapillaren der grossen Ganglienzellen von Lophius. Sitbzer. K. Böhmisch. Ges. Wiss., Prag, 1903. 12 p. pl. & fig. 1903.1

—— Histologische und histogenetische Untersuchungen über das Knorpel-, Vorknorpel- und Chordagewebe. Anat. Hefte, 1903, **21**, 280–525. 10 pls. & 12 figs. 1903.2

—— Ueber Stachelzellen und sternförmige Zellen in Epithelien. Sitzber. K. Böhmisch. Ges. Wiss. (*math.-nat. Cl.*), 1903, no. 42. 9 p. 2 pls. 1903.3

—— O některých pseudostrukturách základní hmoty v hyalinní chrupavce [Ueber einige Pseudostrukturen der

Grundsubstanz des Hyalinknorpels] Časop. Lékařu Česk. Roč., 1904, **43**, 113–117; 144–149. pl. & 3 figs. — Arch. Mikr. Anat., **66**, 525–548. pl. 1904.1

—— Die Parietalorgane [Fische] (In Oppel, Albert. Lehrbuch der vergleichenden mikroskopischen Anatomie der Wirbeltiere, pt. 5, 12–104. 51 figs. Jena, 1905) 1905.1

—— Drüsenzellen und Cuticulargebilde der Epidermis von Lepadogaster. Anat. Anz., 1906, **29**, 132–144. 2 figs. 1906.1

—— Ueber kollagene Bindegewebsfibrillen in der Grundsubstanz des Hyalinknorpels, im Dentin und im Knochengewebe. Anat. Anz., 1906, **29**, 334–344. 10 figs. 1906.2

—— Ueber einige Grundsubstanzgeweben. Anat. Anz., 1907, **31**, 497–522. 15 figs. 1907.1

—— Vergleichende Untersuchungen über die Epidermis der Vertebraten. Anat. Hefte, 1909, **39**, 1–267. 15 pls. & 10 figs. 1909.1

—— Zur Lösung der Dentinfrage. Bemerkungen zu den Arbeiten von K. von Korff und V. von Ebner. Anat. Anz., 1909, **36**, 481–502. 2 figs. 1909.2

—— Die Otoconien, Otolithen und Cupulæ terminales im Gehörorgan von Ammocœtes und von Petromyzon. Nebst Bemerkungen über das "Otosoma" des Gehörorgans der Wirbeltiere überhaupt. Anat. Anz., 1912, **42**, 529–562. 12 figs. 1912.1

—— Ueber die Entwicklung und die Bedeutung der Seitenaugen von Ammocœtes. Anat. Anz., 1912, **41**, 561–578. 6 figs. 1912.2

—— Ueber Regenerationserscheinungen im caudalen Ende des Körpers von *Petromyzon fluviatilis*. Arch. Entw.-Mech., Leipzig, 1912, **34**, 187–238. pl. & 9 figs. 1912.3

—— Epidermoidale Sinneszellen bei jungen Ammocoeten (Proammocoeten) Anat. Anz., 1913, **44**, 102–112. 5 figs. 1913.1

Stürtz, *F.* Einige Beobachtungen über die Zucht exotischer Fische in offenen Bassins [Text in Russian] Naturfreund, St. Petersb., 1907, **2**, 236–239. 1907.1

Stüve, *H. Girardinus uninotatus* Poey, ein neueingeführter lebendgebärender Aquarienfisch. Natur u. Haus, Berlin, 1901, **9**, 359–361. 1901.1

Stuhlmann, *Franz Ludwig* [1863 —] Zur Kenntnis des Ovariums der Aalmutter (*Zoarces viviparus* Cuv.) Abh. Naturw. Ver. Hamburg, 1887, **10**, 48 p. 4 pls. 1887.1

—— Zoologische Ergebnisse einer in den Jahren 1888–90 . . . von F. Stuhlmann in die Küstengebiete von Ost-Afrika unternommenen Reise. 2 vols. Berlin, 1893–1901. 8°. 1893.1

Vol. i. Fische, von G. Pfeffer. 49 p. 3 pls.

Stummer-Traunfels, *Rudolf von.* Ueber die phylogenetische Entwicklung der schalleitenden Apparate am Gehörorgan der Wirbeltiere. Mitt. Nat. Ver. Steiermark, 1910, **46**, 451–468. pl. 1910.1

Stur, *Dionys Rudolf Josef* [1827–1893] [Fisch- und Pflanzenreste von Hohenelbe] Jahrb. Geol. Reichsanst. Wien 1861 (1862), **12**, 293–294. 1862.1

—— Fossile Fisch- und Pflanzenreste aus den Meletta-Schichten von Wurzenegg bei Prassburg. Verh. Geol. Reichsanst. Wien, 1867, 197–199. 1867.1

—— Haifischzähne von Schaluf. Verh. Geol. Reichsanst. Wien, 1868, 200. 1868.1

—— *Xenacanthus* [*Pleuracanthus*] *dechenii* Goldf. sp. aus dem Oelberger Kalk bei Braunau in Böhmen. Verh. Geol. Reichsanst. Wien, 1873, 90–91. 1873.1

—— Vorlag des ersten fossil Schädels von Ceratodus, etc. Verh. Geol. Reichsanst. Wien, 1886, no. 15, 381–384. 1886.1

Subsequently described as *C. sturii* by F. J. Teller, 1891.1.

Sturdevant, *F.* Result of propagating trout. Rept. U. S. Fish Comm. 1878 (1880), **6**, 935. 1880.1

Sturm, *Ernst.* Ueber Fischreusen. Allgem. Fischerei Zeitg., 1895, **20**, no. 7, 125–127. 1895.1

Sturm, *Friedrich.* Der Sandstein von Kieslingswalde in der Grafschaft Glatz und seine Fauna. Jahrb. Preuss. Geol. Landesanst. Bergakad., 1901, **21**, pt. 2, 39–98. 10 pls. 1901.1

Sturtevant, *E. Lewis.* Notes on the fishes of Wanshakum pond, S. Framingham, Mass., and particularly on the habits of the black bass. Rept. Comm. Inland Fisheries Mass., 1874, 32–34. 1874.1

Sturtevant, *E. L.*

—— Fishing in Wanshakum pond. Rept. Comm. Inland Fisheries Mass., 1876, 45–48. 1876.1

—— Supposed development of pickerel without fecundation. Amer. Naturalist, 1877, **11**, 494. 1877.1

—— Breeding of landlocked salmon. Amer. Naturalist, 1879, **13**, 583–584. 1879.1

Sturz, *J. J.* Der Fischfang auf hoher See und rationell betriebener Küstenfischfang als einer der Hauptnahrungs-Zweige des deutschen Volkes und Grundbedingung einer deutschen Flotte. Berlin, 1862. 8°. 1862.1

Stuwitz, *P. Blennius gracilis,* nov. spec. Nyt. Magaz. Naturvidensk., 1838, **1**, 406–423. 1838.1

—— Efterretningar om en til Bergens museum fra Nordland indsendt Trachypterus. Nyt. Magaz. Naturvidensk., 1840, **2**, 277–296. figs. 1840.1

Stuxberg, *Anton Julius* [1849–1902] Faunan på och kring Novaja Semlja. Stockholm, 1886. 8°. — Sveriges och norges fiskar. Heft I. Göteborg, 1895. fig. 8°. 1886.1

Stuyvenberg (*junior*), *Hugo van. Barilius neglectus* Stieler. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 469–470. 2 figs. 1913.1

Suchard, *E.* Observations nouvelles sur la structure des veines. Arch Anat. Micr., 1902, **5**, 1–16. pl. & 2 figs. 1902.1

Suchetet, *André* [1849 —] L'hybridité dans la nature. Rev. Quest. Sci., 1888, **12**, 175–244. 1888.1

Fishes, p. 188–197.

Suchier, *E.* Beobachtungen am Forellenteich. Fischerei Zeitg., Neudamm, 1901, **4**, 565–567. 1901.1

Sucker, *L.* Die Fische nebst die essbaren wirbellosen Thieren der Adria und ihre Zubereitung. 3 pts. in 1 vol. Triest, 1895. 1895.1

Suckley, *George* [1830 —] Report upon the fishes collected on the survey (1) Report upon the Salmonidæ (2) Report upon the fishes exclusive of the Salmonidæ (In Rept. Exploration and Survey to ascertain the most practical and economical route for a railroad from the Mississippi river to the Pacific ocean, vol. xii, book 2, Zool. Rept., no. 5, chap. 1, 307–368. 20 pls. Washington, 1860) 1860.1

—— Description of several new species of Salmonidæ from the north-west coast of America. Ann. Lyceum Nat. Hist., N. Y. 1858 (1862), **7**, 1–10. 1862.1

—— Descriptions of several new species of Salmonidæ from the north-west coast of America. Ann. Lyceum Nat. Hist., N. Y., 1862, **7**, 1–10. 1862.2

—— Notices of certain new species of North American Salmonidæ, chiefly in the collection of the North-west Boundary Commission. Ann. Lyceum Nat. Hist., N. Y., 1862, **7**, 306–313. 1862.3

—— On the North American species of salmon and trout. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 91–160. 1874.1

Suckley, *George,* & **Cooper,** *J. G.* The natural history of Washington territory and Oregon, with notes relating to Minnesota, Nebraska, Kansas, Utah and California, between the thirty-sixth and forty-ninth parallels of latitude . . . with full catalogues and descriptions of the plants and animals collected from 1853 to 1860. 2 pts. New York, 1860. illust. 4°. 1860.1

This edition contains a new preface, a classified table of contents, some additional plates and the latest additions and corrections by the authors. Part 3 contains an article on fishes, by G. Suckley.

Suckley, *George,* **Girard,** *Charles,* & **Agassiz,** *Louis. See* **Girard, Suckley & Agassiz.**

Suckow, *Georg Adolph* [1751–1813] Anfangsgründe der theoretischen und angewandten Naturgeschichte der Thiere. 4 vols. Leipzig, 1797–1801. 8°. 1797.1

Fishes, vol. iv.

Suffield, *Robert Rudolph.* Longevity of the carp. Nature, 1874, **10**, 147; 165. Abstract in Forest & Stream, **3**, 164. 1874.1

Suffrian, —— Verzeichniss der innerhalb des k. preuss. Regierungsbezirks Arnsberg bis jetzt beobachteten wildlebenden Wirbelthiere. Jahrb. Ver. Naturk. Nassau, Wiesbaden, 1846, pt. 3, 126. 1846.1

Sujef, *Wasil.* Blenniorum duæ species, ex museæo academico. Act. Acad. Petropol., 1779, 195. 1779.1

Sulima, *A.* Ueber Narkotisierung von Haifischen. Zeitschr. Biol. Techn.

Method. Strassburg, 1909, **1**, 377–382. fig. 1909.1

—— Beiträge zur Kenntnis des Harnsäurestoffwechsels niederer Tiere. Zeitschr. Biol., 1914, **63**, 223–244. 1914.1
Harnsäurebildung bei Teleostiern (oxydative Bildung)

Sullivan, *M. X.* The physiology of the digestive tract of elasmobranchs. Amer. Journ. Physiol., 1905, **15**, 42–45. — Bull. Bureau Fisheries, **27**, 1–27. 1905.1

Sulze, *Walter.* Ueber die elektrische Reaktion des Nervus olfactorius des Hechtes auf Doppelreizung. Arch. Ges. Physiol., 1909, **127**, 57–73. pl. & 3 figs. 1909.1

Sulzer, *J.* Beiträge zur Statistik der schweizerischen Fischerei. Leipzig, 1880. 5 p. 8°. 1880.1

—— Systematisches Verzeichniss der in den schweizerischen Gewässern vorkommenden Fischarten, nebst Beifügung der Vulgärbezeichnung. Internat. Fischerei-Ausstell. Berlin, 1880 (Schweiz. Kat.), 13–17. 1880.2

—— Zusammenstellung sämmtlicher in den schweizerischen Gewässern vorkommender dem Genus Coregonus angehörender Formen. Internat. Fischerei-Ausstell. Berlin, 1880 (Schweiz. Kat.), 17–19. 1880.3

Sulzer, *J.*, & **Pavesi,** *Pietro.* *See* **Pavesi & Sulzer.**

Sumner, *Francis Bertody* [1874—] On the early development of the catfish (Noturus) Science, 1899, n. s. **9**, 313–314. 1899.1

—— Kupffer's vesicle and its relation to gastrulation and concrescence. Mem. N. Y. Acad. Sci., 1900, **2**, 47–83. 34 figs. 1900.1

—— The teleost gastrula and its modifications. Science, 1900, n. s. **11**, 169. 1900.2

—— Further experimental studies upon fish development. Ann. N. Y. Acad. Sci., 1903, **15**, 68. 1903.1

—— The importance of biological studies to fish-culture and the fisheries. Amer. Fish Cult., 1904, **1**, no. 2, 5–7. 1904.1

—— A study of early fish development; experimental and morphological. Arch. Entw.-Mech., Leipzig, 1904, **17**, 92–149. 5 pls. & 35 figs. 1904.2

—— The summer's work at the Woods Hole laboratory of the Bureau of Fisheries (former U. S. Fish Commission) Science, 1904, n. s. **19**, 241–253. 1904.3

—— The biological laboratory of the Bureau of Fisheries at Woods Hole, Mass. Report of work for the summer of 1904. Science, 1905, n. s. **21**, 566–572. *Ibid.*, **22**, 855–859. 1905.1

—— Experimental studies of adaptation and selective elimination in fishes. Ann. N. Y. Acad. Sci., 1905, **16**, 359. 1905.2

—— Experimental studies of fitness in fishes. Bull. N. Y. Zool. Soc., 1905, **17**, 212–213. 1905.3

—— The osmotic relations between fishes and their surrounding medium (preliminary note) Biol. Bull. Woods Hole, 1906, **10**, 298–306. 1906.1

—— The physiological effects upon fishes of changes in the density and salinity of water. Bull. Bureau Fisheries, 1906, **25**, 55–108. 2 figs. 1906.2

—— The biological laboratory of the U. S. Bureau of Fisheries at Woods Hole. Science, 1907, n. s. **25**, 712–716. 1907.1

—— Further studies of the physical and chemical relations between fishes and their surrounding medium. Amer. Journ. Physiol., 1907, **19**, 61–96. 2 figs. 1907.2

—— The biological laboratory of the Bureau of Fisheries at Woods Hole, Mass. Report of work for the season of 1907. Amer. Naturalist, 1908, **42**, 317–340. 1908.1

—— Adaptive color changes among fishes. Bull. N. Y. Zool. Soc., 1910, no. 42, 699–701. 5 figs. 1910.1

—— Adaptive changes of color among fishes. Trans. Amer. Fish. Soc. 1910 (1911), 235–244. pl. 1911.1

—— The adjustment of flat-fishes to various backgrounds. A study of adaptive color change. Journ. Exper. Zool., 1911, **10**, no. 4, 409–505. 13 pls. 1911.2

—— Fundulus and fresh water. Science, 1911, n. s. **34**, 928–931. 1911.3

—— The causes of death of marine fishes in fresh water and vice versa. Proc. 7. Intern. Zool. Congr., Boston 1907 (1912), 284–288. 1912.1

Sumner, *Francis B.*, & **Dean,** *Bashford. See* **Dean & Sumner.**

Sumner, *Francis B.*, **Osburn,** *Raymond C.*, & **Cole,** *L. J.* A biological survey of the waters of Woods Hole and vicinity. Part I. Section 1. Physical and zoological [Pisces] Bull. Bur. Fisheries 1911 (1913), **31**, 160–169. 1913.1

Sund, *Oscar.* Die Entwickelung des Geruchsorganes bei *Spinax niger.* Vortrag gehalten in der Biologischen Gesellschaft zu Christiania am 26. Mai 1904. Biol. Centralbl., 1904, **24**, 651–659. 10 figs. 1904.1

—— Die Entwicklung des Geruchsorgans bei *Spinax niger.* Ein Beitrag zur Frage von Monorhinie und Amphirhinie. Zool. Jahrb. (*Abt. Anat.*), 1905, **22**, 157–172. 2 pls. & 9 figs. 1905.1

—— Brislingen (The sprat) Rept. Norwegian Fish. & Mar. Invest., 1909, **2**, pt. 2, 154–163. 1909.1

—— Undersøkelser over brislingen i norske farvand. Aarsber. Vedkom. Norges Fisker., Bergen, 1910, 1–121. pl., 2 maps & 17 figs. 1910.1

—— Undersøkelser over brislingen i norske farvand väsentlig paa grundlag av " Michael Sars " 5 togt 1908. Med tabeller over forekomst af ägg og yngel fra " Michael Sars " togt 1908 av Einar Koefoed [Investigations on the sprat in Norse waters] Aarsber. Vedkom. Norges Fisker., Bergen, 1910, 357–473. pl. & 2 charts. 1910.2

Sund, *Oscar,* **Dahl,** *K.*, & **Damas,** *D. See* **Dahl, Damas & Sund.**

Sundevall, *Carl Jakob* [1801–1875] *Corvinus umbrinus* Hedenborg. Handl. Svensk. Vet. Akad., 1838, 198–203. 1838.1

—— Om *Amphioxus lanceolatus.* Forh. Skand. Naturforsk., 1840, Möde 2, 280–281. 1840.1

—— Om de två nordiska arterna af fiskslägtet Macrourus (Lepidoleprus Risso) och bådas förekommande vid Norrige. Handl. Svensk. Vet. Akad., 1840, 1–14. — Isis (Oken), 1845, 101–108. 1840.2

—— Arsberättelse om Zoologicus framsteg under åren 1840–42. Stockholm, 1844. 1844.1

—— *Scomber thynnus* och *Brama raji* funna vid Sveriges kuster. Oefvers. Vet. Akad. Förh., 1844, **1**, 11–13; 214–215. 1844.2

—— [Ueber *Scomber thynnus* und *Brama raji,* an Schwedens Küsten gefunden] Arch. Skandin. Beitr. Naturgesch., 1845, **1**, 135–136. 1845.1

—— *Cottus pœcilopus* och *C. gobio.* Oefvers. Vet. Akad. Förh., 1851, **8**, 185–186. 1851.1

—— Fisk-ungars utveckling. Oefvers. Vet. Akad. Förh., 1851, **8**, 161–169. 1851.2

—— Guldfärgad aborre. Oefvers Vet. Akad. Förh., 1851, **8**, 155. 1851.3

—— Die Entwickelung der Fischjungen. Froriep's Tagsber. (*Zool.*), 1852, **2**, no. 465, 249–255. pl. 1852.1

—— Om A. Malm's uppsats: Om *Syngnathus typhle* och *S. acus.* Oefvers. Vet. Akad. Förh., 1852, **9**, 85–92. 1852.2

—— *Acipenser huso* i Sverige. Oefvers. Vet. Akad. Förh., 1854, **10**, 228. 1854.1

—— Om fiskyngels utveckling. Handl. Svensk. Vet. Akad., 1855–56, **1**, 1–24. 1855.1

—— Thierarten des Aristoteles. Stockholm, 1863. 242 p. 8°. 1863.1

See also references under Aristotle, *supra.*

Sundevall, *Carl Jakob,* **Ekström,** *C. U.*, & **Fries,** *B. See* **Fries, Ekström & Sundevall.**

Sundewall, *Frederik Emil* [1811–1881] Ueber *Amphioxus lanceolatus.* Isis (Oken), 1843, 290–291. 1843.1

Sundman, *Gösta,* & **Reuter,** *O. M.* Finlands fiskar målade efter naturen af G. Sundman, med text af O. M. Reuter [and A. J. Mela] The fishes of Finland, etc. 12 pts. Helsingfors, 1883. 41 col. pls. fol. 1883.1

Swedish and English in parallel columns. The text is in twelve separately paged sections. There is no text to pl. xix.

Sundström, *Carl Rudolf.* Sveriges användbarare fiskar. Stockholm, 1886. pl. fol. 1886.1

Sundt, *Eifert.* Fiskeriets bedrift. Christiania, 1862. 42 p. 8°. 1862.1

Sundvik, *Ernst Edvard.* Bidrag till frågan om fiskarnas resp. de kallblodiga djurens öfvervintring. Meddel. Soc. Fauna Flora Fenn., 1895, **21**, 12–14. 1895.1

Sundvik, *O.* Ueber das Bindegewebe des Fischdarmes unter besonderer Berücksichtigung von Oppels stratum compactum. Vorläufige Mittheilung. Anat. Anz., 1907, **30**, 310–315. 1907.1

Sunier, *A. L. J.* Les premiers stades de la différentiation interne du myotome et la formation des éléments sclérotomatiques chez les acraniens, les sélaciens et les téléostéens. Tijdschr. Nederl. Dierk. Vereen., 1911, 2. ser. **12**, 75–182. 7 pls. 1911.1

—— De beteeknis van het natuurwetenschappelyk vissche visscheryonderzoek voor Nederlandsch-Indie. Meded. Vissch. Stat. Batavia, 1914, **10**, 1–44. 1914.1

Suomalainen, *E. W.* *Cottus quadricornis* löydetty Saimaan vesistöstä. Meddel. Soc. Fauna Flora Fenn., 1905, **31**, 64–65; 211. 1905.1

—— Alen i norra Savolaks vattendrag [Der Aal in den Gewässern von Nord-Savolaks] Fiskeritidschr. Finl., 1908, **17**, 31–33. — Luonnen Ystävä, Helsingfors, **12**, 17–18. 1908.1

—— Punainen ahven Espoosta [Rote Form von *Perca fluviatilis* aus Esleo] Meddel. Soc. Fauna Flora Fenn., 1908, **34**, 33; 205. 1908.2

—— Kaksi eläintieteellistä tiedonantoa [Zwei zoologische Notizen] Meddel. Soc. Fauna Flora Fenn., 1909, **35**. 1909.1

—— *Cottus quadricornis* L. ja *C. Pœcilopus* Heckel Puruvedessä. Meddel. Soc. Fauna Flora Fenn., 1910, **36**, 102–103; 215. 1910.1

—— Die Fischfauna des Sees Kallavesi in Nord-Savo (Savolaks) Acta Soc. Fauna Flora Fenn., 1910, **33**, no. 6. 27 p. 1910.2

—— Kallavedestä saadut merihärät (*Cottus quadricornis* L.) Meddel. Soc. Fauna Flora Fenn., 1910, **36**, 30; 215. 1910.3

—— Pullokala, *Liparis lineatus* (Lepech.) Suomen sisäsaaristossa. Meddel. Soc. Fauna Flora Fenn., 1911, **37**, 94–95; 218. 1911.1

Supan, *Alexander Georg* [1847 —] Grundzüge der physischen Erdkunde. Leipzig, 1903. 1903.1

Supino, *Felice.* Considerazioni sulla teratologia spirimentale. Bull. Soc. Veneto-Trent. Sci. Nat., 1896, **6**, 43–48. 3 figs. 1896.1

—— Contributo alla conoscenza delle terminazioni nervose nei muscoli striati dei pesci. Atti Soc. Veneto-Trent. Sci. Nat., 1898, 2. ser. **3**, 382–388. 2 pls. 1898.1

—— Ricerche sul cranio dei teleostei. Ricerche Lab. Anat. Norm., Roma, 1901–03. 1901.1

i. Scopelus, Chauliodus, Argyropelecus. Ricerche Lab. Anat. Norm., Roma, 1901, **8**, 249–273. 3 pls.
ii. Macrourus. *Ibid.*, 1903, **9**, 115–127. pl.
iii. Ruvettus. *Ibid.*, 129–140. pl.
iv. Pomatomus, Hoplostethus. *Ibid.*, 217–232. pl.

—— Considerazioni sul cranio dei teleostei. Monit. Zool. Ital., Firenze, 1903, **14**, 313–314. 1903.1

—— Contributo allo studio del tessuto osseo dell' Orthagoriscus. Rendic. Accad. Lincei, Roma, 1904, **13**, pt. 1, 118–121. 1904.1

—— Il cranio dei teleostei in rapporto al loro genere di vita. Rendic. Accad. Lincei, Roma, 1904, **13**, pt. 2, 625–631. 1904.2

—— Morfologia del cranio dei teleostei. Roma, 1904–06. 50 p. 6 pls. 8°. 1904.3

—— Il *Chlopsis bicolor* Raf. Ricerche Lab. Anat. Norm., Roma, 1905, **11**, fasc. 1–2, 25–31. 9 figs. 1905.1

—— Il *Saurenchelys cancrivora* Peters. Ricerche Lab. Anat. Norm., Roma, 1905, **11**, fasc. 1–2, 143–149. 5 figs. 1905.2

—— Il *Todarus brevirostris.* Ricerche Lab. Anat. Norm., Roma, 1905, **11**, fasc. 3, 255–259. 6 figs. 1905.3

—— Il cranio dei pesci. Roma, 1907. xi, 100 p. 40 figs. 1907.1

—— Osservazioni sopra i corpi postbranchiali dei pesci. Ricerche Lab. Anat. Norm., Roma, 1907, **12**, fasc. 4, 253–256. 1907.2

—— Osservazioni sul numero dei nervi occipito-spinali dei teleostei. Ricerche Lab. Anat. Norm., Roma, 1907, **13**, 61–64. 1907.3

—— I così detti pesci antimalarici. Atti Soc. Ital. Sci. Nat., Milano, 1908, **47**, 117–120. 1908.1

—— La maturità sessuale nei murenoidi. Boll. Pesca Acquicult., 1908, 6. 2 figs. 1908.2

—— Morfologia del cranio e note sistematiche e biologiche sulle famiglie Trachinidæ e Pediculati. Atti Soc. Ital. Sci. Nat., Milano, 1908, **47**, 100–116. 7 figs. 1908.3

Supino, *F.*

—— Note biologiche sugli agoni (*Alosa finta* var. *lacustris*) Rivist. Mens. Pesca, Milano, 1908, **10**, 218–221. 1908.4

—— Un simplice e sicuro apparecchio di riscaldamento per acquario di studio. Rivist. Mens. Pesca, Milano, 1908, **10**. 5 p. 2 figs. 1908.5

—— Idrobiologia e piscicoltura. Boll. Soc. Lombardo Pesca Acquicult., 1909. 14 p. 1909.1

—— Sviluppo larvale e biologia dei pesci delle nostre acque dolce. Atti Soc. Ital. Sci. Nat., Milano, 1909, **48**, 197–218. 2 pls. & 2 figs. *Ibid.*, 1910, **49**, 122–147. pl. & 10 figs. 1909.2

—— La carpicoltura nelle risaie. Parts 1–3. Boll. Soc. Lombardo Pesca Acquicult., 1909. 9 p. *Ibid.*, 1910. 7 p. fig. *Ibid.*, 1911. 4 p. 1909.3

—— La determinazione dell' età nei pesci. Natura, Milano, 1910, **1**. 16 p. 7 figs. 1910.1

—— Influenza delle luce colorate sullo sviluppo delle uova di trota. Rendic. Istit. Lombardo Sci., 1910, 2. ser. **43**, 290–297. 1910.2

—— La stagnicoltura in Italia. Boll. Soc. Lombardo Pesca Acquicult., 1910. 14 p. 2 figs. 1910.3

—— La carpa (*Cyprinus carpio* L.) cenni biologici e pratici. Soc. Agraria Lombardia, Milano, 1911, 1–107. 1911.1

—— Il sonno invernale e l' alimentazione delle carpe. Rendic. Istit. Lombardo Sci., 1911, 2. ser. **44**, 387–401. 1911.2

—— Allivamenti di pesci in risaie. Boll. Soc. Lombardo Pesca Acquicult., 1912. 6 p. 1912.1

—— Cenni morfologici e biologici sopra alcuni percoidi (persico-trota; persico-sole; sandra) Atti Soc. Ital. Sci. Nat., Milano, 1912, **51**, 191–206. 11 figs. 1912.2

—— La sorveglianze sul commercio del pesce. Boll. Soc. Lombardo Pesca Acquicult., 1912. 7 p. 1912.3

—— Idrobiologia applicata. Milano, 1914. viii, 283 p. pl. & 134 figs. 1914.1

—— Morfologia del cranio del *Calamoichthys calabaricus* Smith. Atti Soc. Ital. Sci. Nat. Mus. Civ. Milano, 1914, **53**, 179–188. 4 figs. 1914.2

—— I pesci d' acqua dolce d' Italia. Milano, 1916. 87 p. illust. 8°. 1916.1

Surbeck, *Georg.* Ein Begattungsorgan bei der Mühlkoppe (*Cottus gobio*) Allgem. Fischerei Zeitg., 1900, **25**, 141. 1900.1

—— Ein Copulationsorgan bei *Cottus gobio* L. Zool. Anz., 1900, **23**, 229–230; 553–558. 1900.2

—— Erwiderung auf die Bemerkungen Georg Duncker's in no. 639 des Zoologischen Anzeigers. Zool. Anz., 1901, **24**, 305–306. 1901.1

—— Die Verwendung unserer einheimischen Fische in der Arzneikunst des 16.–18. Jahrhunderts. Zeitschr. Fischerei, Berlin, 1901, **9**, 124–129. 1901.2

—— Zur Organisation der Fischerei in Bayern. Allgem. Fischerei Zeitg., 1902, **27**, 373–375. 1902.1

—— Ein "neuer" Coregone im Bodensee. Allgem. Fischerei Zeitg., 1903, **28**, 11–12. 1903.1

—— Zur Zucht des Nordseeschnäpels. Allgem. Fischerei Zeitg., 1903, **28**, 27–28. 1903.2

—— Ein Bachsaiblingsalbino. Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 31–32. 1904.1

—— Bodenseefischerei. Allgem. Fischerei Zeitg., 1904, **29**, 11. 1904.2

—— Einiges über Teichwirtschaft am Maine. Allgem. Fischerei Zeitg., 1904, **29**, 270–271. 1904.3

—— Die Regulierung der Loisach und der Alz in ihrer Wirkung auf die Fischerei im Kochelsee und Chiemsee. Allgem. Fischerei Zeitg., 1904, **29**, 446–450; 467–469. 1904.4

—— Versuche zur Einführung der Schwebnetzfischerei im Würmsee (Starnbergersee) Allgem. Fischerei Zeitg., 1904, **29**, 387–390. 1904.5

—— Vom Wachstum des Hechtes. Allgem. Fischerei Zeitg., 1904, **29**, 10. 1904.6

—— Die Fische (Bericht über die 19. Wanderausstellung in München) Jahrb. Deutsch. Landwirtschaft. Ges., 1905, **20**, 115–121. 1905.1

—— Der Forellenbarsch in freien Gewässern. Allgem. Fischerei Zeitg., 1905, **30**, 50–51. 1905.2

—— Das Genossenschaftswesen im Fischereibetrieb. Allgem. Fischerei Zeitg., 1905, **30**, 401–405. 1905.3

—— Die Heranzucht von Jährlingen der Peipusseemaräne. Allgem. Fischerei Zeitg., 1905, **30**, 467. 1905.4

—— Ueber die Tätigkeit der staatlichen Konsulentie für Fischerei in Bayern im Jahre 1904. Allgem. Fischerei Zeitg., 1905, **30**, 67. 1905.5

—— Die Besetzung bayerischer Seen mit Peipusseemaränen [*Coregonus maræna*] Allgem. Fischerei Zeitg., 1907, **32**, 35–37. 1907.1

—— Ueber die Tätigkeit der staatlichen Konsulentie für Fischerei in Bayern im Jahre 1906. Allgem. Fischerei Zeitg., 1907, **32**, 96–98; 118–121. 1907.2

—— Aus dem Tätigkeitsbericht des Konsulenten für Fischerei in Bayern pro 1907. Allgem. Fischerei Zeitg., 1908, **33**, 89–95. 1908.1

—— Bericht über die Wander-Ausstellung der Deutschen Landwirtschaftsgesellschaft 1908. Die Fische. Jahrb. Deutsch. Landwirtschaft. Ges., 1908, **23**. 1908.2

—— Erfolge und Ziele der modernen Bestrebungen zur Hebung der Fischerei. Schweiz. Fischerei Zeitg., Suppl., 1908, no. 10. 13 p. 1908.3

—— Die Karpfen und Brachsen in einigen bayerischen Voralpenseen. Allgem. Fischerei Zeitg., 1908, **33**, 459–464; 486–490. 1908.4

—— Die Kiesbetterbrütung, ein Mittel zur Verhütung der Dotterblasenwasserzucht. Allgem. Fischerei Zeitg., 1908, **33**, 345–346. 1908.5

—— Ueber einen eklatanten Erfolg der Kiesbetterbrütung. Allgem. Fischerei Zeitg., 1908, **33**, 394–395. 1908.6

—— Aus dem Tätigkeitsbericht des bayerischen Konsulenten für Fischerei über das Jahr 1908. Allgem. Fischerei Zeitg., 1909, **34**, 120–123; 146–148. 1909.1

—— Die Schädigung der Fischerei durch die Hochwasserkatastrophe vom Februar 1909. Allgem. Fischerei Zeitg., 1909, **34**, 238–239. 1909.2

—— Ueber die Furunkulosekrankheit der Salmoniden. Mitt. Naturf. Ges. Bern, 1909, nos. 1701–1739, ix–x. 1909.3

—— Eine auffallende Parasitenhäufung bei Coregonen. Schweiz. Fischerei Zeitg., 1910, **18**, 245–250. 1910.1

—— Etwas über das Aussetzen der Jungbrut. Schweiz. Fischerei Zeitg., 1910, **18**, 21–28. 1910.2

—— Die Fischereibetriebe der Schweiz nach den Ergebnissen der eidgenössischen Betriebszählung vom Jahre 1905. Schweiz. Fischerei Zeitg., 1910, **18**, 149–150. 1910.3

—— Gesetzliche Bestimmungen zur Bekämpfung von Fischseuchen. Schweiz. Fischerei Zeitg., 1910, **18**, 253–256. 1910.4

—— Neues über die Furunkulose. Allgem. Fischerei Zeitg., 1910, **35**, 430–431. 1910.5

—— Wie soll man Fische zur Untersuchung einsenden? Schweiz. Fischerei Zeitg., 1910, **18**, 151–152. 1910.6

—— Die Bedeutung der Tier- und Pflanzenwelt im Wasser für die Fischerei. Schweiz. Fischerei Zeitg., 1911, **19**, 317–319. 1911.1

—— Une curieuse maladie de la truite de rivière. Bull. Suisse Pêche Piscicult., 1911, **12**, 121–123. 3 figs. 1911.2

—— Eine eigentümliche Erkrankung bei der Bachforelle. Schweiz. Fischerei Zeitg., 1911, **19**, 157–159. 3 figs. 1911.3

—— L'état actuel de la pisciculture en Suisse. Bull. Suisse Pêche Piscicult., 1911, **12**, 78–82; 90–92. 1911.4

—— La furonculose des poissons dans les eaux libres. Bull. Suisse Pêche Piscicult., 1911, **12**, 162–165; 173–175. 1911.5

—— Die Furunkulosis der Fische in freien Gewässern. Schweiz. Fischerei Zeitg., 1911, **19**, 125–132. 1911.6

—— Der gegenwärtige Stand der künstlichen Fischzucht in der Schweiz. Deutsch. Fischerei, Festschrift E. Uhles, Neudamm, 1911, 83–89. 1911.7

—— Un gros cyste de *Henneguya zschokkei*. Bull. Suisse Pêche Piscicult., 1911, **12**, 125–126. fig. 1911.8

—— Eine grosse Sporencyste von *Henneguya zschokkei*. Schweiz. Fischerei Zeitg., 1911, **19**, 163–165. fig. 1911.9

—— 8. Schweizerische landwirtschaftliche Ausstellung in Lausanne, 10.–19.

Surbeck, *G.*
September 1910. Allgemeiner Bericht über Abteilung XIV, Sektion C, Fischerei. Schweiz. Fischerei Zeitg., 1911, **19**, 301–310. 1911.10

—— Die biologischen Methoden der Abwässerreinigung. Mitt. Naturf. Ges. Bern, 1912. 1912.1

—— Die Fischerei an der Schweiz. Landesausstellung, 1914. Schweiz. Fischerei Zeitg., 1912, **20**, 186–198. 1912.2

—— La pêche à l'exposition nationale suisse à Berne 1914. Bull. Suisse Pêche Piscicult., 1912, **13**, 120–130. 1912.3

—— Beitrag zur Kenntnis der Geschlechtsverteilung bei Fischen. Schweiz. Fischerei Zeitg., 1913, 21. Jahrg., nos. 4–5; 78–89; 105–109. 1913.1

—— Die Regenbogenforelle (*Salmo irideus* Gibb.) in Alpenseen. Schweiz. Fischerei Zeitg., 1913, 21. Jahrg., 26–30. 1913.2

—— Skoliose und andere pathologische Erscheinungen bei einer Nase (*Chondrostoma nasus*) Schweiz. Fischerei Zeitg., 1913, 21. Jahrg., no. 4, 73–77. 2 figs. 1913.3

—— Verkürzung der Wirbelsäule bei einer Forelle. Schweiz. Fischerei Zeitg., 1913, 21. Jahrg., 133. 1913.4

—— Der Blaufelchenfang im Bodensee während der Laichzeit 1913. Schweiz. Fischerei Zeitg., 22. Jahrg., 270–273. 1914.1

—— Ueber die Ergebnisse der ersten Laichfischfang-Statistik des Kantons Bern pro 1913–14 (Zugleich neuer Beitrag zur Kenntnis der Geschlechtsverteilung bei Fischen) Schweiz. Fischerei Zeitg., 1914, 22. Jahrg., 228–238; 260–266. 1914.2

—— Die Bedeutung der Coregonenzucht in der Schweiz. Schweiz. Fischerei Zeitg., 1915, 23. Jahrg., 296–305. 1915.1

—— Fischereiverhältnisse im Basellande 1833–1914. Schweiz. Fischerei Zeitg., 1915, 23. Jahrg., 42–48; 85–87. 1915.2

—— Die schweizerische Bodenseefischerei im Jahre 1914. Nach den amtlichen fangstatistischen Erhebungen bearbeitet. Schweiz. Fischerei 5 figs. 1915, 23. Jahrg., 34–41; 65–72. Zeitg., 1915.3

—— Von Bergsee zu Bergsee. Fischereiliche Streiftouren im Sommer 1915. Schweiz. Fischerei Zeitg., 1915, 23. Jahrg., 236–243. 24. Jahrg., 4–13. 1915.4

—— Die schweizerische Bodenseefischerei im Jahre 1915. Schweiz. Fischerei Zeitg., 1916, 24. Jahrg., 57–65. 1916.1

Surface, *H. A.* The lampreys of central New York. Bull. U. S. Fish Comm. 1897 (1898), **17**, 209–215. 2 pls. & 2 figs. 1898.1

—— Removal of lampreys from the interior waters of New York. Fourth Ann. Rept. Comm. Fish., Game & Forests N. Y., 1899, 191–245. 6 pls. 1899.1

Susari, *Romeo.* Ueber die feinere Anatomie des Gehirnes der Teleostier. Intern. Monatsschr. Anat. Physiol., 1887, **4**. 1887.1

Sussdorf, *Julius.* Mitteilung über die Schwimmblase der Fische. Sitzber. Naturw. Ges. Isis, Dresden, 1862, 127–128. 1862.1

Susta, *Josef.* Die Ernährung des Karpfens und seiner Teichgenossen. Stettin, 1888. 1888.1

—— The same. 2. ed. Stettin, 1905. xii, 251 p. 2 pls. 8°. 1905.1

Suster, *Mario.* La colonna vertebrale dei pesci. Ann. Stud. Trentini, 1899, **5**, 125–129. 1899.1

Sutherland, *Peter Cormack* [1822–1900] Journal of a voyage in Baffin's bay and Barrow straits, in the years 1850–51, performed by H. M. Ships "Lady Franklin" and "Sophia," etc. 2 vols. London, 1852. 8°. 1852.1

Fishes, vol. i, 24–27; 414–472. vol. ii, 242; 341.

Sutton, *Alan C.* On an abnormal specimen of *Roccus lineatus* with especial reference to the position of the eyes. Anat. Record, 1913, **7**, 195–201. 6 photos. 1913.1

Sutton, *Francis.* Exportation of salmon ova to New Zealand in 1876. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 987–988. 1878.1

—— The development of the protective instinct in fishes. Trans. Norfolk Norwich Nat. Soc., 1899, **6**, 440–444. 1899.1

Sutton, *J. Bland.* A critical study in cranial morphology. Journ. Anat. Physiol., 1887, **22**, pt. 1, 28–37. 1887.1

—— Evolution and disease. London, 1890. 1890.1
Fishes, p. 121.

Suvorov, *E. K.* Ueber die Regeneration der Flossen bei den Knochenfischen [Text in Russian, with German résumé] Trav. Soc. Imp. Nat., St. Pétersb. (*Zool.*), 1904, **33**, pt. 4, 1–81. 7 figs. Trav. Labor. Zool., no. 14, 1–19; 79–81. 1904.1

—— Eine Fahrt in das Gouv. Astrachan, nach dem nördlichen Theil des Kaspischen Meeres und dem Bulak-See [Text in Russian] Vĕst. Rybopromyšl., St. Petersb., 1907, **22**, 505–536. 1907.1

—— Rapport sur un voyage à Astrachan et au nord de la mer Caspienne et lac Boulak. Note préliminaire [Text in Russian] Trav. Soc. Imp. Nat. St. Pétersb., 1907, **38**, pt. 1, C. R. 219–222. 1907.2

—— Studien zur Erforschung der Kaspihäringe, in Rassen, Abarten und Arten [Text in Russian] Arb. Kaspischen Exped., St. Petersb., 1907, **1**, 139–199. 1907.3

—— Arbeiten der Ostsee-Expedition. Vorläufiger Bericht über ichthyologische Ergebnisse [Text in Russian] Arb. Russ. Ostsee-Exped., St. Petersb., 1910, **1**, 88–119. 1910.1

—— [Zur Ichthyofauna der Ostsee] Arb. Russ. Ostsee-Exped., St. Petersb., 1913, **2**, 37–99. 1913.1

Suvorov, *E. K.*, & **Borodin,** *Nikolaus Andreas. See* **Borodin** & **Suvorov.**

Suwa, *A.* Untersuchungen über die Organextrakte der Selachier. I. Mitteilung. Die Muskelextraktstoffe des Dornhais (*Acanthias vulgaris*) Arch. Ges. Physiol., 1909, **128**, 421–426. 1909.1

—— Untersuchungen über die Organextrakte der Selachier. II. Mitteilung. Ueber das aus den Muskelextraktstoffen des Dornhais gewonnene Trimethylaminoxyd. Arch. Ges. Physiol., 1909, **129**, 231–239. fig. 1909.2

Suworff, *E. See* **Suvorov,** *E. K.*

Suzuki, *B.* Notiz über die Entstehung des Mittelstückes der Samenfäden von Selachiern. Anat. Anz., 1899, **15**, 125–132. 6 figs. 1899.1

Suzuki, *U.*, **Mihata,** *M.*, **Otsuki,** *S.*, **Inouye,** *R.*, **Bharatkar,** *K. C.*, **Okuda,** *Y.*, **Odake,** *S.*, **Yoshimura,** *K.*, & **Tanaka,** *Y.* Ueber die Extraktivstoffe des Fischfleisches und der Muscheln. Journ. Coll. Agric. Univ. Tokyo, 1912, **5**, 1–24. 1912.1

Svinhufvud, *Sigurd.* Några goda forellvatten. Tidskr. Jägare & Fisk., 1893, **1**, 37–39. 1893.1

Swaen, *A.* Etude sur le développement des feuillets et des premiers ilots sanguins dans le blastoderme de la torpille (*Torpedo ocellata*) Bull. Acad. Sci. Bruxelles, 1885, 3. sér. **9**, 385–416. 16 figs. — Arch. Biol., **7**, 537–585. 3 pls. Abstract in Journ. Roy. Micr. Soc., **5**, 977. 1885.1

Swaen, *A.*, & **Brachet,** *A.* Etude sur les premières phases du développement des organes dérivés du mésoblaste chez les poissons téléostéens. Arch. Biol., 1899, **16**, 173–311. 6 pls. *Ibid.*, 1901, **18**, 73–190. 2 pls. 1899.1

—— Sur les premières phases du développement des dérivés mésoblastiques chez les téléostéens. C. R. Assoc. Anat., 1. sess., 1899, 71–75. 1899.2

—— De la formation des feuillets dans le bourgeon terminal et dans le queue des poissons téléostéens. C. R. Assoc. Anat., 1902, **4**, 139–157. 28 figs. 1902.1

—— Etude sur la formation des feuillets et des organes dans le bourgeon terminal et dans la queue des embryons des poissons téléostéens. Arch. Biol., 1904, **20**, 461–610. 4 pls. 1904.1

Swain, *Joseph.* An identification of the species of fishes described in Shaw's "General zoology." Proc. Acad. Nat. Sci. Philad., 1882, 303–309. 1882.1

—— A review of Swainson's "Genera of fishes." Proc. Acad. Nat. Sci. Philad., 1882, 278–284. 1882.2

—— A review of the Syngnathinæ of the United States, with a description of one new species. Proc. U. S. Nat. Mus., 1882, **5**, 307–315. 1882.3

—— A review of the species of Stolephorus found on the Atlantic coast of the United States. Bull. U. S. Fish Comm. 1882 (1883), **2**, 55–57. 1883.1

Swain, *Joseph*, & **Jordan,** *David Starr. See* **Jordan** & **Swain.**

Swain, *Joseph*, & **Kalb,** *George B.* A review of the genus Noturus with a description of one new species. Proc. U. S. Nat. Mus., 1882, **5**, 638–643. 1882.1

Swain, *Joseph,* & **Meek,** *Seth Eugene.* Notes on a collection of anchovies from Havana and Key West, with an account of a new species (*Stolephorus eurystole*) from Woods Hole, Mass. Proc. Acad. Nat. Sci. Philad. 1884 (1885), 34–36. 1885.1

—— Notes on the pipe-fishes of Key West, Florida, with description of *Siphostoma mckayi,* a new species. Proc. U. S. Nat. Mus., 1885, **7**, 237–239. 1885.2

Swain, *Joseph,* & **Smith,** *Rosa. See* **Smith** & **Swain.**

Swaine, *L. H.* On the scales and other tegumentary organs of fishes. Proc. Bristol Nat. Soc., 1870, **4**. 1870.1

Swainson, *William* [1789–1855] Zoological illustrations, or original figures and descriptions of new, rare or interesting animals, arranged on the principles of Cuvier and other modern zoologists. 6 vols. London, 1820–33. 318 col. pls. 8°. 1820.1

—— The natural history and classification of fishes, amphibians and reptiles, or monocardian animals. 2 vols. London, 1838–39. 8°. 1838.1

Swan, *James G.* The northwest coast; or three years' experience in Washington territory. New York, 1857. 435 p. 26 figs. 12°. 1857.1

Popular notices of fishes, especially salmon.

—— The eulachon or candle-fish of the northwest coast. Proc. U. S. Nat. Mus., 1880, **3**, 257–264. — Smithson. Misc. Coll., 1882, **22**, art. 1. 1882.1

—— The surf-smelt of the northwest coast, and the method of taking them by the Quillehute Indians, west coast of Washington territory. Proc. U. S. Nat. Mus., 1880, **3**, 43–46. — Smithson. Misc. Coll., 1882, **22**, art. 1. 1880.1

—— Shad in Puget sound. Bull. U. S. Fish Comm. 1882 (1883), **2**, 152. 1883.1

—— Report on black cod of the north Pacific ocean. Bull. U. S. Fish Comm. 1885, **5**, 225–234. fig. 1885.1

—— Notes on the fisheries and fishery industries of Puget sound. Bull. U. S. Fish Comm. 1893 (1894), **13**, 371–380. pl. 1894.1

Swan, *John D.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 12–13. 1873.1

Swan, *John O.* Man-eating sharks. Forest & Stream, 1880, **14**, 449. 1880.1

—— Panama, the place of many fish. Forest & Stream, 1880, **15**, 224–245. 1880.2

Swan, *Joseph* [1791–1874] Illustrations of the comparative anatomy of the nervous system. London, 1835. 1835.1

Swartz, *Charles Kephart.* Systematic paleontology of the Upper Devonian deposits of Maryland. Vertebrata. Pisces. Maryland Geol. Survey Middle & Upper Devonian, 1913, 700–701. 1913.1

Glyptaspis eastmani, n. sp.

Swartz, *Olof* [1760–1817] Tilläg vid Hr. A. J. Retzii anmärkningar om slagtet Myxine. Handl. Svenska Vet. Akad., 1790, 114. 1790.1

—— Svensk zoologi . . . text författad af O. Swartz, etc. (In Palmstruch, J. W. Svensk zoologi, etc. 2 vols. Stockholm, 1806–09. illust. 8°) 1806.1

The work was initiated by G. J. Billberg; the text to Heft 1, however, was edited by C. Quensel, on whose death the editorship passed to O. Swartz, who was responsible for Hefte 2–10, and possibly 11; Heft 12 was written by J. W. Dalman.

Swayne, *S. Henry.* On Myliobatis and Pterocephala. Proc. Bristol Nat. Soc., 1878, n. s. **2**, pt. 2, 126–129. fig. 1878.1

Sweeny, *R. Ormsby.* Directions for transporting living fish fry. Forest & Stream, 1878, **10**, 398. 1878.1

—— The siskiwit. Trans. Amer. Fisheries Soc. 1890 (1891), 84–86. 1891.1

Sweet, *G.* On the discovery of fossil fish in the Old Red Sandstone rocks of the Mansfield district. Proc. Roy. Soc. Victoria, 1890, 2. ser. **2**, 1–14. 1890.1

—— Contributions to our knowledge of the anatomy of *Notoryctes typhlops* Stirl. Quart. Journ. Micr. Sci., 1906, n. s. **50**. 1906.1

Sweetapple, *Edward.* Large salmon in the Severn and Wye. Zoologist, 1867, 2. ser. **2**, 916. *Ibid.,* 1868, 2. ser. **3**, 1321. 1867.1

—— Large sturgeon in the Severn. Zoologist, 1867, 2. ser. **2**, 836. *Ibid.,* 1868, **3**, 1295. 1867.2

—— Larger conger eel (53 lbs.) in the Severn. Zoologist, 1869, 2. ser. **4**, 1520. 1869.1

—— Sturgeons in the Severn. Zoologist, 1869, 2. ser. **4**, 1836. 1869.2

Sweizawski, *E.* Ryby i rybolówstwo w dawnej Polsce przed wiekiem XVI-tym [Fish and fisheries in Poland before the 16th century] Przyroda i Przemysł, 1880–81, **9**, 330–331; 337–339; 349–350; 361–363; 373–374; 385–387. 1880.1

Swenander, *Gustaf.* Beiträge zur Kentnis der Fische des Trondhjemsfjords. Skrift. Norske Vidensk. Selsk., 1906, no. 9. 112 p. 5 pls. 1906.1

—— Ueber die Ernährung des Embryos der *Lamna cornubica.* Zool. Studien Tullberg, Upsala, 1907, 283–288. pl. 1907.1

Swetitsch, *Joseph.* A depot for embryonated eggs of all the valuable kinds of fish. Bull. U. S. Fish Comm. 1881 (1882), **1**, 345–346. 1882.1

Swett, *S. B.* Decrease of fish in Squamscot river, New Hampshire, on account of refuse matter from gas works. Bull. U. S. Fish Comm. 1882 (1883), **2**, 33. 1883.1

Swieten, *H. J. van.* De vischteelt op sawahs in de Preanger-Regentschappen. Tijdschr. Nijverheid. Nederl. Indie, 1868, **13** (n. s. **8**), 57–68. 1868.1

Swinderen, *Theodor van.* Initia faunæ Groninganæ, of proeve eener naamlijst der dieren, welke in de provincie Groningen gevonden worden. Uitgegeven door het Genootsch. ter bevord. der Nat. Hist. te Groningen. 1825. Met 3 vervolgen. Nat. Verh. Holl. Maatsch. Wet. Haarlem, 1826, **15**. 1826.1

Swinnerton, *H. H.* A contribution to the morphology of the teleostean head skeleton based upon a study of the developing skull of the three-spined stickleback (*Gasterosteus aculeatus*) Quart. Journ. Micr. Sci., 1902, **45**, 503–593. 4 pls. & 5 figs. 1902.1

—— The osteology of *Cromeria nilotica* and *Galaxias attenuatus.* Zool. Jahrb., 1903, **18**, 58–70. 15 figs. 1903.1

—— The changes and variations in the position of the pectoral fin during development. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 319–321. 4 figs. 1905.1

—— A contribution to the morphology and development of the pectoral skeleton of teleosteans. Quart. Journ. Micr. Sci., 1905, **49**, 363–383. pl. & 3 figs. 1905.2

—— The stickleback; its personal and family history. 54. Ann. Rept. Nottingham Nat. Soc., 1907, **54**, 34–40. pl. 1907.1

—— Organic remains in the Trias of Nottingham. Geol. Mag., 1910, 5. dec. **7**, 229. 1910.1

—— The evolution of the function and structure of the fins in fishes. Science Progress, London, 1911, **5**, 447–456. 1911.1

Swirski, *G.* Untersuchungen über die Entwicklung des Schultergürtels und des Skeletes der Brustflosse des Hechtes. Inaug. Dissert. Dorpat, 1880. 60 p. 2 pls. 8°. 1880.1

Swithinbank, *Harold,* & **Bullen,** *G. E.* An illustrated handbook of the edible seafishes of the British isles. London, 1916. xi, 35 p. illust. 8°. 1916.1

34 species of marketable fishes are treated in popular style. *See also* Cunningham, J. T., 1896.1, and Regan, C. T., 1911.8, *supra.*

Sykes, —— Fisch- und Körner-Regen in Indien. Brit. Assoc. Adv. Sci., 10. meet., 1840, 217. 1840.1

Sykes, *Arthur.* Inbreeding pond-reared trout. Trans. Amer. Fisheries Soc. 1902 (1903), 116–121. 1903.1

Sykes, *William Henry* [1790–1872] On the fishes of the Deccan. Proc. Zool. Soc. London, 1838, **6**, 157–165. Abstract in Trans. Zool. Soc. London, **2**, 349. 1838.1

—— The fishes of Dukhun. Ann. Mag. Nat. Hist., 1840, **4**, 54–62. — Trans. Zool. Soc. London, **2**, 349–378. 8 pls. Also separate; London, 1841. 8 pls. fol. 1840.1

—— On a fossil fish [*Lepidotus deccanensis*] from the table-land of the Deccan, in the peninsula of India; with a description of the specimens by Sir P. de M. G. Egerton. Quart. Journ. Geol. Soc. London, 1851, **7**, 272–273. pl. — Journ. Bombay Asiat. Soc., **5**, 146–148. 1851.1

Syle, *L. Du Pont.* The fisheries of Madeira in 1882. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1196–1197. 1885.1

Symonds, *William Samuel* [1818–1887] Notice of shoals of dead fish observed on the passage between Miramichi, New Brunswick and the

Symonds, *W. S.*
port of Gloucester, England. Edinburgh New Philos. Journn., 1855, n. s. **1**, 271–278. 1855.1

—— On some fishes and tracks from the passage and from the Old Red Sandstone of Herefordshire Rept. Brit. Assoc. Adv. Sci., 29. meet., 1859, 124–125. 1859.1

—— Glyptolepis [Holoptychius] of Dura Den (Keuper breccia) Geologist, 1863, 134–135. 1863.1

—— Glyptolepis — Upper Ludlow fossils. Geologist, 1863, 187. 1863.2

—— Fish remains in the Lower Devonian of south Devon and Cornwall. Geol. Mag., 1868, **5**, 296. 1868.1

—— On a new fish-spine from the Lower Old Red Sandstone of Hay, Breconshire. Rept. Brit. Assoc. Adv. Sci., 41. meet., 1871, 110. 1871.1

—— Fish-remains in the Devonian beds of Cornwall. Geol. Mag., 1872, **9**, 239–240. 1872.1

Pteraspis, Scaphaspis, etc.

Symons (*junior*), *John.* Note on the appearance of the grey mullet during corresponding periods, and quantities of the fish caught at Sennen cove, in 1874 and 1875. Journ. Roy. Inst. Cornwall, 1874–77, **5**, 212. 1874.1

Syrski, *Simone de.* Ueber die Reproductions-Organe der Aale. Sitzber. Akad. Wiss. Wien, 1874, **69**, 1. Abth., 315–326. — Arch. Sci. Phys. Nat., **52**, 163–166. 1874.2

—— Degli organi della riproduzione e della fecondazione dei pesci ed in ispecialità delle anguille. Boll. Soc. Adriatica Sci. Nat. Trieste, 1875, **1**, 10–32. Also separate; Trieste, 1875. 8°. 1875.1

—— On the reproductive organs of the eels. Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 304–305. 1875.2

—— Lecture on the organs of reproduction and the fecundation of fishes and especially of eels. Rept. U. S. Fish Comm. 1873–74 (1876), **3**, 719–734. 23 figs. 1876.1

—— Wypadki poszukiwań odnoszących się do narządow rodnych ryb kostnych [Result of researches relating to the genital organs of the osseous fishes] Kosmos (Lwow), 1876, **1**, 417–455. 1876.2

Szajnocha, *Wladyslaw* [1857 —] Ueber fossile Fische von Monte Bolca bei Verona [Text in Polish] Pam. Akad. Krakou, 1886, **12**, 104–115. 4 pls. 1886.1

On *Eolabroides szajnochæ* Zigno see observations of Dr. T. N. Gill, communicated by C. R. Eastman in Mem. Carnegie Museum, 1914, **6**, 336–338.

Szczawinska, (*Mademoiselle*) *W.* Recherches sur le système nerveux des sélaciens. Arch. Biol., 1898, **15**, 463–509. pls. 1898.1

Széchenyi, (*Count*) *Béla* [1837 —] Gróf Széchenyí B. Keletzsiai utjának tudományos Erdménye. 1877–1880 [Scientific results of Count B. Széchenyí's travels in eastern Asia] 3 vols. & atlas. Budapest, 1890. 4° & fol. 1890.1

A reptiliák, amphibiák, és halak jegyzéke [List of the reptiles, amphibians and fish by F. Steindachner]

Szibenliszt, *Mathias.* Dissertatio inauguralis medica sistens anatomiam et physiologiam piscium generalem. Budæ, 1841. 18 p. 1841.1

Szilady, *Zoltán.* A halak betegségei [Die Krankheiten der Fische] Termt. Közl., Budapest, 1908, **40**, 24–36; 99–108. 1908.1

Szily, *Aurel von.* Die einleitenden Vorgänge zur Bildung der knöchernen Flossenstrahlen in der Schwanzflosse bei der Forelle, zugleich ein Beitrag zur Phylogenese dieser Hartgebilde. Anat. Anz., 1907, **31**, 347–364. 8 figs. 1907.1

—— Histiogenetische Untersuchungen. Part 1. Anat. Hefte, 1907, **33**, pt. 1, 227–313. 12 pls. 1907.2

—— Ueber das Entstehen eines fibrillären Stützgewebes im Embryo und dessen Verhältnis zur Glaskörperfrage. Anat. Hefte, 1908, **35**, 649–757. 12 pls. 1908.1

Szinnyei, *József.* Bibliotheca hungarica historiæ naturalis et matheseos. Magyarország természettudományi és mathematikai Könyvészete. Budapest, 1878. 1007 p. 1878.1

Two supplementary volumes containing titles of zoological contributions in Hungary for the years 1870–80 and 1881–90, were published by Dr. Jenő Daday at Budapest in 1882 and 1891.

Szymanski, *J. S.* Eine Methode zur Untersuchung der Ruhe- und Aktivitätsperioden bei Tieren. Arch. Ges. Physiol., 1914, **158**, 343–385. 35 figs. 1914.1

Methodik. Schaben nur tätig von etwa 7–10 Uhr abends (Oberhand der inneren Impulse) Bei Goldfischen Aktivität bei Tag.

T

T., *H. W.* Salmon in fresh water. Forest & Stream, 1877, **8**, 81. 1877.1

T., *J.* Silver fish. Mag. Nat. Hist., 1830, **3**, 478. 1830.1

T., *M.* Das Vorkommen des Huchens (*Salmo hucho*) in Mähren. Mitth. Mähr.-Schles. Ges. Ackerbau, Natur- u. Landesk., 1866, 24. 1866.1

T., *T. G.* Grayling in the Missouri. Rod & Gun, 1875, **6**, 154. 1875.1

T., *W. D.* Grubs in fish. Forest & Stream, 1880, **15**, 207. 1880.1

Taczanowski, *L.* Liste des vertébrés de Pologne. Bull. Soc. Zool. France, 1877, **2**, 121–174. 1877.1

Poissons, p. 169–174. The list includes 53 species.

Taenzer, *R.* Einige Beobachtungen an *Pterophyllum scalare*. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 229–230. fig. 1914.1

Tafani, *Aless.*, & **Brigidi,** *Vincenzo*. *See* **Brigidi & Tafani.**

Tagawa, *Isanu.* Report on the Clupea fishery in the prefecture of Kanagawa [Text in Japanese] Suisan Chōsa Hōkoku, Tōkyō, 1904, **12**, pt. 2, 7–56. 1904.1

Tagg, *Henry.* Fish-culture. Forest & Stream, 1873, **1**, 22. 1873.1

Tagliani, *Giulio.* Ricerche anatomische intorno alla midola spinale dell' *Orthagoriscus mola.* Monit. Zool. Ital., Firenze, 1894, **5**, 248–258. 1894.1

—— Intorno ai centri nervosi dell' *Orthagoriscus mola* (Tetraodon) Notizie anatomiche e critiche. Boll. Soc. Natur. Napoli, 1895, **9**. 1895.1

—— Considerazioni morfologiche intorno alle cellule nervose colossali dell' *Amphioxus lanceolatus* e alle cellule nervose giganti del midollo spinale di alcuni teleostei. Nota preliminare. Monit. Zool. Ital., 1897, **8**, 264–275. 1897.1

—— Ueber die Riesennervenzellen im Rückenmarke von *Solea impar.* Anat. Anz., 1898, **15**, 234–237. 1898.1

—— Le fibre del Mauthner nel midollo spinale de' vertebrati inferiori (Anamni) Arch. Zool. Ital., Napoli, 1905, **2**, 385–438. 1905.1

Tahara, *Y.* Ueber das Tetrodongift. Biochem. Zeitschr. Berlin, 1910, **30**, 255–275; 506. 1910.1

Tait, *Lawson.* Note on some peculiar tumours found on the *Gasterosteus trachurus* [*G. aculeatus*] Journ. Anat. Physiol., 1870, **4**, 12–13. 1870.1

Takahashi, *D.*, & **Inoko,** *Y.* Untersuchungen über das Fugu Gift. Arch. Exper. Pathol. & Pharmak., 1889, **26**. 1889.1

—— Beiträge zur Kenntniss des Fugugiftes vom Fugufisch [Tetrodon] Mitth. Medic. Facult. Tokio, 1892, **1**, pt. 5, 375–402. 1892.1

Takahashi, *N.*, & **Ishikawa,** *C.* *See* **Ishikawa & Takahashi.**

Talbott, *Henry.* Potomac bass Trans. Amer. Fisheries Soc. 1905 (1906), 124–131. 1906.1

—— The invasion of the Potomac. Trans. Amer. Fisheries Soc. 1909 (1910), 168–173. 1910.1

Tallant, *E. C.* Spawn in off season [of Californian trout] Forest & Stream, 1879, **12**, 744. 1879.1

Tallant, *R.* What do salmon eat? Forest & Stream, 1875, **5**, 308. 1875.1

Tamborini, *Ferd.* Jagd- und Kundschafterdienst im Meere. Die Natur, 1900, 49. Jahrg., 234–235. 1900.1

Tammelander, *A.* Från Teisko. Fiskeritidskr. Finl., 1893, **2**, 14. 1893.1

Tammelander, *Knut.* Die Forelle (*Trutta fario*) in der Vihavuosi-Stromschnelle in Finland [Text in Swedish] Tidskr. Jägäre & Fisk., Helsingfors, 1903, pt. 2, 54–55. 1903.1

Tanaka, *Shigeho.* On the brain of *Chimæra monstrosa.* Proc. Acad. Nat. Sci. Philad., 1877. 34 p. pl. 1877.1

—— Miscellaneous notes on fishes [Text in Japanese]. Dōbuts. Zasshi,

Tanaka, *S.*
Tōkyō, 1904, **16**, 140–147; 161–172; 344–354. figs. 1904.1

—— On a collection of fishes from the prefecture of Kagoshima [Text in Japanese] Dōbuts. Zasshi, Tōkyō, 1904, **16**, 247–264. 1904.2

—— On a species of salmon obtained in Kamtschatka [Text in Japanese] Dōbuts. Zasshi, Tōkyō, 1904, **16**, 71. 1904.3

—— Ginzame-rui [On chimæroids] Dōbuts. Zasshi, Tōkyō, 1905, **17**, 353–369. pl. 1905.1

—— On two new species of Chimæra. Journ. Coll. Sci. Tōkyō, 1905, **20**, art. 2, 1–14. 2 pls. & figs. 1905.2

—— Descriptions of eight new species of fishes from Japan. Annot. Zool. Japon., 1908, **7**, 27–47. 2 figs. 1908.1

—— Fish-fauna of lake Biwa. Annot. Zool. Japon., 1908, **7**, 1–15. 1908.2

—— Ijima Hakushi saishu Nanbu Karafuto no gyorui ni tsuite [On a collection of fishes made by Prof. Ijima in the southern parts of Sakhalin] Dōbuts. Zasshi, Tōkyō, 1908, **20**, 33–47. pl. Abstract in Annot. Zool. Japon., **6**, 235–254. pl. 1908.3

—— Notes on some Japanese fishes, etc. Journ. Coll. Sci. Tōkyō, 1908, **23**, art. 7, 13. 54 p. 4 pls. 1908.4

—— Notes on some rare fishes of Japan, with descriptions of two new genera and six new species. Journ. Coll. Sci. Tōkyō, 1908, **23**, art. 13. 24 p. 2 pls. 1908.5

—— On a small collection of tide-pool fishes from Misaki, with descriptions of two new species. Annot. Zool. Japon., 1908, **7**, 17–26. 1908.6

—— On some fishes from lake Biwa with description of one new species [*Acheilognathus shimazui*] and a list of all the fish species hitherto known from that locality. Annot. Zool. Japon., 1908, **7**, 1–15. fig. 1908.7

—— Descriptions of one new genus and ten new species of Japanese fishes. Journ. Coll. Sci. Tōkyō, 1909, **27**, art. 8. 27 p. pl. 1909.1

—— Gifu-san gyorui yoho [Preliminary report on the fishes of Gifu] Dōbuts. Zasshi, Tōkyō, 1909, **21**, 62–67. 1909.2

—— Notes on freshwater fishes from the province of Shinano, Japan. Annot. Zool. Japon., 1909, **7**, 125–138. 1909.3

—— Shinshū san tansuigyo mokuroku [A list of the freshwater fishes of the province of Shinano] Dōbuts. Zasshi, Tōkyō, 1909, **21**, 288–291. 1909.4

—— Ni shu no shin kaigyo ni tsuite [On two species of deep-sea fishes] Dōbuts. Zasshi, Tōkyō, 1910, **22**, 251–256. 1910.1

—— Chōsen san tansuigyo no jakkan ni tsuite [On some freshwater fishes from Corea] Dōbuts. Zasshi, Tōkyō, 1911, **23**, 107–108. 1911.1

—— Figures and descriptions of the fishes of Japan, including Riukiu islands, Bonin islands, Formosa, Kurile islands, Korea and southern Sakhalin. Tōkyō, 1911 [Text in Japanese and English] 71 p. 1911.2

Tanaka, *Shigeho,* **Jordan,** *David Starr,* & **Snyder,** *J. O.* *See* **Jordan, Tanaka, & Snyder.**

Tangl, *Ferencz.* Karl Knauthe's Arbeiten über die Verdauung und den Stoffwechsel der Fische. Zusammenfassendes Referat. Biol. Centralbl., 1899, **19**, 579–584. 1899.1

Tangl, *Ferencz,* & **Farkas,** *Kálmán.* Beiträge zur Energetik der Ontogenese. 4. Mittheilung. Ueber den Stoff- und Energie-Umsatz im bebrüteten Forellenei. Arch. Gesamt. Physiol., 1904, **104**, 624–638. 1904.1

—— Untersuchungen über den Stoff- und Energie-Umsatz des befruchteten Forelleneies [Text in Hungarian] Math. Természet. Ertesitő, Budapest, 1904, **22**, 180–190. 1904.2

Tanner, *Z. L.* Report of operations of the U. S. steamer "Speedwell" in 1879, while in the service of the U. S. Fish Commission. Rept. U. S. Fish Comm. 1879 (1882), **7**, 603–615. 1882.1

—— Movements of mackerel. Bull. U. S. Fish Comm. 1883, **3**, 471. 1883.1

—— Report of an exploring trip of the steamer "Fish Hawk" in Chesapeake bay in the early spring of 1882. Bull. U. S. Fish Comm. 1882 (1883), **2**, 133–135. 1883.2

—— Report on the construction and work in 1880 of the Fish Commission steamer "Fish Hawk." Rept. U. S.

Fish Comm. 1881 (1884), **9**, 3–53. 18 pls. & 3 figs. 1884.1

—— Report on the work of the U. S. Fish Commission steamer "Fish Hawk" for the year ending December 31st, 1881. Rept. U. S. Fish Comm. 1881 (1884), **9**, 55–85. 1884.2

—— Report on the work of the U. S. Fish Commission steamer "Fish Hawk" for the year ending December 31st, 1882, and on the construction of the steamer "Albatross." Rept. U. S. Fish Comm. 1882 (1884), **10**, 3–34. 3 pls. 1884.3

—— Report on the construction and outfit of the United States Fish Commission steamer "Albatross." Rept. U. S. Fish Comm. 1883 (1885), **11**, 3–116. 55 pls. & 19 figs. 1885.1

—— Report on the work of the United States Fish Commission steamer "Albatross" for the year ending December 31st, 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 117–236. 3 pls. 1885.2

—— Report on the work of the United States Fish Commission steamer "Albatross" for the year ending December 31st, 1884. Rept. U. S. Fish Comm. 1884 (1886), **12**, 3–116. 3 pls. 1886.1

—— Report on the work of the United States Fish Commission steamer "Albatross" for the year ending December 31st, 1885. Rept. U. S. Fish Comm. 1885 (1887), **13**, 3–89. 4 pls. & 9 figs. 1887.1

—— Report of the movements and operations of the Fish Commission steamer "Albatross" from September 15 to 20, 1887. Bull. U. S. Fish Comm. 1887 (1888), **7**, 155–158. 1888.1

—— Report on the work of the United States Fish Commission steamer "Albatross" for the year ending December 31st, 1886. Rept. U. S. Fish Comm. 1886 (1889), **15**, 605–692. 10 pls. 1889.1

—— Explorations of the fishing grounds of Alaska, Washington territory, and Oregon, during 1888, by the U. S. Fish Commission steamer "Albatross," Lieut. Comdr. Z. L. Tanner, U. S. Navy, commanding. Bull. U. S. Fish Comm. 1880 (1890), **8**, 1–95. map. 1890.1

—— The fishing grounds of Bristol bay, Alaska: a preliminary report upon the investigations of the U. S. Fish Commission steamer "Albatross" during the summer of 1890. Bull. U. S. Fish Comm. 1889 (1891), **9**, 279–280. 3 pls. 1891.1

—— Report on the work of the United States Fish Commission steamer "Albatross" from January 1, 1887, to June 30, 1888. Rept. U. S. Fish Comm. 1887–88 (1891), **15**, 371–435. 4 pls. 1891.2

—— Report upon the investigations of the United States Fish Commission steamer "Albatross" for the year ending June 30, 1889. Rept. U. S. Fish Comm. 1888 (1892), **16**, 395–512. 2 pls. 1892.1

—— Report upon the investigations of the United States Fish Commission steamer "Albatross" from July 1, 1889, to June 30, 1891. Rept. U. S. Fish Comm. 1889–91 (1893), **17**, 207–241. 2 pls. 1893.1

—— Report upon the investigations of the United States Fish Commission steamer "Albatross" for the year ending June 30, 1892. Rept. U. S. Fish Comm. 1892 (1894), **18**, 1–64. pl. 1894.1

Tappan, *Frank L.* Aquaria fish. Management and care of the aquaria and its inhabitants. Minneapolis, Minn., 1911. 97 p. illust. 8°. 1911.1

See also Osburn, R. C., 1912.1, *supra.*

—— Breeding chanchito. Aquarium, 1912, **1**, 1–2. 1912.1

Taquin, *A.* Les îles Canaries et les parages de pêche canariens. Bull. Soc. Roy. Belge Géographie, 1902, **26**, 28; 131; 266; 315; 405; 502. *Ibid.*, 1903, **27**, 37. 1902.1

Taramelli, *Torquato* [1845 —] Geologia delle provincie Venete. Mem. Accad. Lincei, Roma, 1882, 3. ser. **13**. 236 p. 3 maps. 1882.1

Tardy, *M.* Aperçu sur l'origine de ces ossements (In Note sur quelques débris de poissons trouvés à Cormoz (departement de l'Ain) Mém. Soc. Sci. Nat. Saône-et-Loire [n. d.] 6–12. pl.

Targioni-Tozzetti, *Adolfo* [1823–1902] Catalogo metodico degli animali riportati dalle escursioni nelle provincie meridionale, in Sicilia e in Sardigna negli anni 1868–1869 dal . . . A. Targioni-Tozzetti. Parte 1, Vertebrati, etc. Atti. Soc. Ital. Sci. Nat. Milano, 1870, **12**. 56 p. 1870.1

Targioni-Tozzetti, *A.*

—— La pesca in Italia; documenti raccolti per cura del Ministero di agricoltura, industria e commercio. 2 vols. Genova, 1871–74. 8°. 1871.1

—— La pesca di Sardegna. Genova, 1872. 8°. 1872.1

—— Relazioni sulla pesca, etc. Genova, 1872. 72 p. 8°. 1872.2

—— Zoologia del viaggio intorno al globo della R. Pirocorvetta "Magenta" durante gli anni 1865–1868. Public. Real. Istit. Studi Superiori, Florence, 1877, no. 1. xxix, 257 p. 13 pls. 1877.1

—— La pesca nei mari d' Italia. Firenze, 1880. 8°. 1880.1

Targioni-Tozzetti, *G.* Le collezioni de G. E. Rumpf acquistate dal Granduco Cosimo III de' Medici, una volta esistenti nel Museo di Fisica e Storia Naturale di Firenze. Estratto da un catalogo manoscritto dal Prof. G. Targioni-Tozzetti per cura di U. Martelli. Firenze, 1903. 213 p. 8°. 1903.1

See also Rouffaer & Muller, 1902.1, *supra.*

Tarnanii, *I. K.* Beiträge zur Kenntnis der Fauna Turkestans auf Grund des von D. D. Pedaschenko gesammelten Materials. IX. Verkrüppelte Karpfen aus dem Issyk-Kul-See [Text in Russian] Trav. Soc. Nat. St. Pétersb., 1911, **42,** fasc. 2, pt. 1 (*Zool. & Physiol.*), 91–99. 2 figs. 1911.1

Tarr, *Ralph Stockman* [1864–1912] Return to Gloucester harbor of young codfish hatched by the United States Fish Commission. Bull. U. S. Fish Comm. 1884, **4,** 57–58. 1884.1

Taruffi, *C.* Storia della teratologia, I–VIII. Bologna, 1894. 1894.1

Tasche, *H.* Breccie aus Fischzähnen und Knochenstücken bei Angersbach. Notizbl. Ver. Erdkunde, Darmstadt, 1861, 3. Jahrg., 118. 1861.1

Taschenberg, *Ernst Otto Wilhelm (editor)* [1854 —] Bibliotheca zoologica. Verzeichniss der 1861–1880 erschienen Schriften. 4 vols. Leipzig, 1887–94. 8°. 1887.1

This is a continuation of the work of Carus & Engelmann, 1861.1. *See also* the Bibliotheca zoologica of L. Agassiz, edited by H. E. Strickland, in four volumes, London, 1848–54.

—— Die bisherigen Publicationen Rudolf Leuckharts (In Festschrift zum siebenzigsten Geburtstage Rudolf Leuckharts, p. ix–xiv. Leipzig, 1892. 4°) 1892.1

—— Geschichte der Zoologie und der zoologischen Sammlungen an der Universität Halle, 1694–1894. Abh. Naturf. Ges. Halle, 1894, **20.** 176 p. 9 pls. & figs. 1894.1

—— Die bisherigen Publikationen des Herrn Geheimrat Professor Dr. Ernst Ehlers. Zeitschr. Wiss. Zool., 1905, **83,** 733–741. 1905.1

—— Die giftigen Tiere. Stuttgart, 1909. 1909.1

Taschenberg, *E. O. W.,* & others. Festschrift zum siebenzigsten Geburtstage R. Leuckarts. Dem verehrten Jubilar dagebracht von seinen dankbaren Schülern, etc. Leipzig, 1892. xv, 413 [2] p. illust. 4°. 1892.1

Contains, among others, the following articles:

Die bisherigen Publicationen R. Leuckarts, zusammengestellt von O. Taschenberg.

Variabilität und Bastardbildung bei Cyprinoiden, von F. Heincke.

Ueber die Entwicklung des Venensystems der Selachier, von C. Rabl.

Notes upon the histology of the central nervous system of vertebrates, by C. L. Herrick.

Ueber eine Ichthyophthirius-Art aus den Aquarien der Biologischen Station zu Plön, von O. Zacharias.

Tate, *George* [1805–1871] The history of the borough, castle, and barony of Alnwick. 2 vols. Alnwick, 1868–69. 4°. 1868.1

Vertebrate animals, by R. C. Embleton.

Tate, *Ralph* [1840–1901] Note on Axinopsis, gen. nov., versus Schizodus et Axinus. Geol. Mag., 1868, **5,** 412. 1868.1

—— *Sphenonchus hamatus,* a Rhætic fossil. Geol. Mag., 1875, n. s. **2,** 286. 1875.1

—— Section of a well-bore (?) at Mulgundawa, near Wellington, South Australia. Trans. Roy. Soc. South Australia, 1900, **24,** 109–111. 1900.1

Tatham, *Will.* Observations on sharks. Phil. Magaz., 1803, **17,** 317–318. 1803.1

Tattersall, *Walter Medley* [1882 —] Notes on the classification and geographical distribution of the Cephalochorda. Trans. Liverpool Biol. Soc., 1903, **17,** 269–302. 1903.1

—— Report on the Cephalochorda collected by Professor Herdman at Ceylon in 1902. Suppl. Rept. Ceylon Pearl Oyster Fisheries, 1903, no. 6, 209–226. pl. 1903.2

Tattersall, *W. M.*, & **Coward,** *T. A.* Faunal survey of Rostherne mere. Mem. Proc. Manchester Liter. Philos. Soc., 1914, **58**, no. 8. 21 p. pl. & map. 1914.1

i. Introduction and methods.
ii. Vertebrata [fishes] by T. A. Coward.

Tautz, *Alwin.* Ueber die Zucht [und das Laichgeschäft] des Moderlieschens (*Leucaspius delineatus* Sieb.) Blätter Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 487–488. 1910.1

Taylor, *Edward E.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 26–28. 1873.1

Taylor, *Ellen M.* Madeira; its scenery and how to see it. With letters of a year's residence and lists of the birds, fishes, trees, flowers, ferns and seaweeds. London, 1882. 8°. 1882.1

Taylor, *Fred. W.* An analysis of artesian well-water from the shad-hatching station at Havre de Grace, Md. Bull. U. S. Fish Comm. 1883, **3**, 348. 1883.1

Taylor, *Harden F.* The structure and growth of the scales of the squeteague and the pigfish as indicative of life history. Bull. Bureau Fisheries 1914 (1916), **34**, 285–330. 9 pls. 1916.1

An important paper, provided with an exhaustive bibliography, p. 325–330. *See also* Thomson, J. S., 1904.1, *infra.*

Taylor, *J.* On the anatomy of the Cuchia. Edinburgh Journ. Sci., 1831, **5**, 42–50. — Isis (Oken), 1835, 310–315. 1831.1

—— On the respiratory organs and air-bladder of certain fishes of the Ganges. Edinburgh Journ. Sci., 1831, **5**, 33–42. 1831.2

—— Ueber die Athemorgane und die Luftblase gewisser Fische im Ganges. Isis (Oken), 1835, 307–310. 1835.1

Taylor, *J. E.* Half-hours at the seaside. London [n. d.] 250 figs. 8°.

—— The blind fishes of the Kentucky Mammoth cave. Sci. Gossip 1872 (1873), 54–56. figs. 1873.1

—— How to make and colour casts of fishes. Sci. Gossip, 1878, **14**, 107–111. pl. 1878.1

Taylor, (*Sister*) *Monica* [**Sister Monica,** *pseudon.*] The development of *Symbranchus marmoratus.* Quart. Journ. Micr. Sci., 1913, **59**, pt. 1, 1–51. 4 pls. & 4 figs. 1913.1

Taylor, *N. A.* Speckled trout in Texas. Forest & Stream, 1878, **10**, 160. 1878.1

—— The striped bass in Texas. Forest & Stream, 1878, **11**, 7. 1878.2

Taylor, *R. C.* Illustrations of antediluvian zoology [fishes] Mag. Nat. Hist., 1830, **3**, 363–364. 1830.1

Taylor, *S.* Angling in all its branches reduced to a complete science. London, 1800. 8°. 1800.1

Taylor, *Thomas* (*translator*) The works of Aristotle, translated from the Greek, and illustrated with copious elucidations from the commentators, by Thomas Taylor. 4 vols. London, 1806–12. 8°. 1806.1

Taylor, *William.* Fossils in the Moray Firth area. Trans. Inver. Sci. Soc. Field Club, 1908, **6**, 1–3. 1908.1

—— *Lamna spallanzanii* in the Moray Firth, an explanation. Ann. Scott. Nat. Hist., 1910, 250. 1910.1

Tchihatcheff, *Pierre de* [1812–1890] Asie Mineure. Description physique . . . et archéologique de cette contrée. 4 parts (in 9 vols.) & atlases. Paris, 1856. 8° & 4°. 1856.1

Part ii. Climatologie et zoologie. 2 vols. xix, 842 p. 4 pls.

—— Considérations sur les poissons du Don, du Dnépre, du Dnestre, du Boug et du Danube. C. R. Acad. Sci. Paris, 1856, **42**, 441–445. — L'Institut, **24**, no. 1158, 100–101. 1856.2

Tegetmeier, *R. B.* Remarks on the progress of salmon-breeding in the Stormontfield ponds. Proc. Zool. Soc. London, 1868, 377. 1868.1

Tegetmeier, *W. B.* The whitebait and the theories respecting it. Zoologist, 1868, **3**, 1322–1328. 1868.1

—— Supposed hermaphrodite fish. Zoologist, 1872, **7**, 2947–2948. 1872.1

Telfair, —— Fische von der Insel Moritz. Isis (Oken), 1835, 522–523. 1835.1

Teller, *Edgar E.* Notes of the fossil fish-spine *Phlyctænacanthus telleri* Eastman. Bull. Wisconsin Nat. Hist. Soc., 1906, n. s. **4**, 162–167. 5 pls. 1906.1

—— A synopsis of the type specimens of fossils from the Palæozoic formations

Teller, *E. E.*
of Wisconsin. Bull. Wisconsin Nat. Hist. Soc., 1911, **9**, 170–271. 1911.1

Cladodus, Dinichthys, Gamphacanthus, Onychodus, Palæomylus, Phlyctænacanthus, Ptyctodus, Rhynchodus and Sphenophorus are enumerated.

Teller, *Friedrich Joseph* [1852–1913] Ueber den Schädel eines fossilen Dipnoërs, *Ceratodus sturii,* n. sp. aus den Schichten der oberen Trias der Nordalpen. Abh. Geol. Reichsanstalt, Wien, 1891, 15, pt. 3, 1–39. 4 pls. Also separate; Wien, 1891. 4 pls. 4°. 1891.1

See also Stur, D. R. J., 1886.1, *supra.*

Teller, *R. K.* Reproduction of eels. Scient. Amer., 1879, **40**, 101–102. 1879.1

Tellkampf, *Theodore A.* Ueber den blinden Fisch der Mammuthhöhle in Kentucky. Arch. Anat. Physiol. (Müller), 1844, 381–395. — New York Med. Journ., **5**, 84–93. 1844.1

—— On the classification of the *Aphredoderus gibbosus* Le Sueur; *Scolopsis sajanus* J. Gilliams [*Aphredoderus sajanus*] Ann. Lyceum Nat. Hist. N. Y., 1867, **8**, 399–400. 1867.1

—— Zur Classification des *Aphredoderus gibbosus* (Le Sueur) *Scolopsis sajanus* (J. Gilliams) Arch. Anat. (Reichert), 1868, 88–89. 1868.1

—— Note respecting the eyes of *Amblyopsis spelæus.* Ann. Lyceum Nat. Hist. N. Y., 1870, **9**, 150–152. 1870.1

Temminck, *Coenraad Jacob* [1770–1858] Uittreksel uit een' brief van Dr. J. C. van Hasselt. Algemeene Konsten Letterbode, 1823, **1**, 315–317; 329–331. 1823.1

Tenison, *J. E. Woods. See* **Woods,** *J. E. Tenison.*

Tennant, *James* [1808–1881] A stratigraphical list of British fossils . . . with . . . remarks on their character and localities. London, 1847. xvi, 132 p. 12°. 1847.1

—— Catalogue of fossils found in the British isles, forming the private collection of J. Tennant. By S. P. Woodward. London, 1858. ii, 76 p. 12°. 1858.1

Syllabus, etc. Mr. Tennant's bibliographic list, by T. Rupert Jones. 23 p.

Tennet, *(Sir) James Emerson* [1804–1869] Sketches of the natural history of Ceylon; with narratives and anecdotes illustrative of the habits and instincts of the mammalia, birds, reptiles, fishes, insects, etc. . . . London, 1861. xxiii, 500 p. illust. 1861.1

Fishes, p. 323–368. 11 figs.

List of Ceylon fishes, p. 359–362.

Instances of fishes falling from the clouds in India (From the Bombay Times, 1856) p. 362–364.

Ceylon fishes (Memorandum by Professor Huxley) p. 364–366.

On the bora-chung, or "ground-fish" of Bhootan, p. 367–368.

Tenney, *Sanborn* [1827–1877] A few words about scavengers. Amer. Naturalist, 1877, **11**, 129–135. 1877.1

—— Odd forms among fishes. Pop. Sci. Monthly, 1877, **11**, 525–538. 33 figs. 1877.2

Tenore, *Michele* [1780–1861] Memoria sopra una nuova specie di squadro (*Squalus platycephalus*) etc. Atti Soc. Pontaniana, 1809, **1**. Also separate; Naples, 1809. 4°. 1809.1

—— Sul ciprino del vulture [*Leuciscus vulturius*] Mem. Accad. Sci. Napoli, 1844, **5**, pt. 2, 1–6. figs. 1844.1

Teodoro, *Francesco.* Contribuzione all' anatomia ed alla fisiologia dei tubi di senso dei plagiostomi. Messina, 1871. 32 p. 4°. 1871.1

Tereschenko, *K. K.* Beiträge zur Kenntnis des Wachstums und der Rückwanderung der Jungfische im Wolgadelta und dem vor der Mündung liegende Meeresteile im Jahre 1912 [Text in Russian] Arbeit. Ichthyol. Labor. Astrachan, 1912, **3**, pt. 1, 28–56. 1912.1

—— Laichzeiten im Wolgadelta im Jahre 1909 [Russian with German résumé] Arbeit. Ichthyol. Labor. Astrachani 1912 (1913), **2**, 5–37. 1913.1

Termeyer, *Raimondo Maria de.* Esperienze sull' anguilla tremente. Opuscoli scelti, 1781, **4**, 324–335. 1781.1

Terni, *Camillo.* Esoftalmia epizootica nei pesci. Atti Soc. Ital. Sci. Nat., Milano, 1906, **45**, 1–32. 2 pls. 1906.1

—— Esoftalmia epizootica nei pesci. Nota di patologia comparata. Rivist. Mens. Pesca, Milano, 1906, **8**, 121–141; 153–160. 2 pls. 1906.2

—— Esoftalmia epizootica in avannotti di *Salmo fario* L. Rivist. Mens. Pesca, Milano, 1908, **10**, 1–3. 1908.1

—— Studio batteriologico sugli inquinamenti industriali delle acque pubbliche nei rapporti coll' acquicoltura e coll' igiene rurale. Rivist. Mens. Pesca, Milano, 1908, **10**, 76–87; 93–105. 1908.2

Terry, *Robert J.* A neuroglia syncytium in Batrachus (*Opsanus tau*) Anat. Anz., 1907, **31**, 27–30. 2 figs. 1907.1

—— The morphology of the pineal region in teleosts. Journ. Morphol., 1910, **21**, 321–358. 20 figs. 1910.1

Tesch, *Johan Jacob.* Eier und Larven einiger im Frühjahr laichenden Fische, besonders der südlichen Nordsee. Verh. Rijksinstit. Onderz. Zee, Helder, 1909, **2**, 3–44. map. 1909.1

—— Leeftijdsbepaling bij de tong door middel van de wervels [Altersbestimmung bei der Zunge vermittels der Wirbel] Med. Vissch., Helder, 1910, **17**, 177–180. 1910.1

—— Verdere onderzoekingen over den groei en het voedsel van de tong. Med. Vissch., Helder, 1913, **20**, 48–53. 1913.1

—— Weitere Untersuchungen über das Laichen einiger Nutzfische besonders der südlichen Nordsee. Verh. Visscherijonderzoek, Haarlem, 1913, 58–123. 1 map. 1913.2

—— Iets over het voedsel van eenige Zuiderzeevisschen voornamelyk van de jonge ontwikkelingsstadiën. Med. Vissch., Helder, 1914, **21**, 125–132. 1914.1

—— Het voorkomen van eieren en larven van eenige Noordseevisschen gedurende de verschillende maanden van het jaar. Med. Vissch., Helder, 1914, **21**, 8–18. 1914.2

Tesch, *J. J.*, & **Redeke,** *Heinrich Carl. See* **Redeke & Tesch.**

Tesdorpf, *A.* Norddeutsche Binnenfischerei. Kiel, 1888. fig. 8°. 1888.1

Testa, *Domenico.* Due lettere. Milano, 12 agosto 1793, e 22 del 1794, ad Ippolito Pindemonte in cui parla della polemica per i pesci fossili del monte Bolca. 1793.1

" Autografe nella Biblioteca Piedemontiana nella comunale di Verona."— dal Nero, Bibliografia, etc., 1911.

—— Breve transunto della lettera terza sui pesci fossili del monte Bolca. Opuscoli Scelti Sci. Arti, 1793, **16**. 1793.2

—— Lettera sui pesci fossili del monte Bolca (Al Signor Abate D. Francesco Venini) Milano, 1793. 104 p. 8°. 1793.3

—— Seconda lettera sui pesci fossili del monte Bolca in risposta alla precedente del Signor Abate Fortis su lo stesso argomento. Opuscoli Scelti Sci. Arti., 1793, **16**, 217–239. 1793.4

" Questa e la lettera del Fortis da Venezia 10 aprile 1793, furono tirate a parte con propria paginatura e col frontespizio: *Due Lettere sui pesci fossili de Bolca.* Parla delle controversie insorte fra il Fortis e il Testa, G. B. Brocchi nella sua *Conchiologia fossile subapennina.* Milano, 1814, p. 68."— Vittorio dal Nero, Bibliografia, etc. 1911.

—— Terza lettera sui pesci fossili del monte Bolca (Al Signor Canonico D. Serafino Volta) [n. pl.] 1793. 1793.5

Thacher, *James K.* Median and paired fins, a contribution to the history of vertebrate limbs. Trans. Conn. Acad. Sci., 1876, **3**, 281–310. 11 pls. & 4 figs. Abstract in Proc. Amer. Assoc. Sci., **25**, 323. 1876.1

—— Ventral fins of ganoids. Trans. Conn. Acad. Sci., 1877, **4**, 233–242. 2 pls. 1877.1

Thacher, *James K.*, & **Smith,** *Sidney.* On stomachs of salmon and their contents. Rept. U. S. Fish Comm. 1872–73 (1874), **1**, 371. 1874.1

Thaxter, *Celia.* Among the isles of Shoals. Boston, 1873. 184 p. 16°. 1873.1

Contains casual mention of fishes.

Thayer, *A. W.* Result of propagating trout. Rept. U. S. Fish Comm. 1878 (1880), **6**, 936. 1880.1

Theil, —— Der Luzernische, des Vierwaldstättersees. Seine Grenzen und die Rechte des Staates, der Gemeinden, Korporationen und Privaten an demselben. Luzern, 1868. 75 p. 8°. 1868.1

Theilig, *M. A.* The carp. Chicago Field, 1878, **10**, 68. 1878.1

Thélohan, *Prosper.* Sur deux coccidies nouvelles, parasites de l'épinoche et de la sardine. C. R. Mém. Soc. Biol. Paris, 1890, n. s. **2**, 345–348. — C. R. Acad. Sci. Paris, **110**, 1214–1216. — Ann. Mag. Nat. Hist., 6. ser. **6**, 194–196. 1890.1

—— Myxosporidies de la vésicule biliaire des poissons. Espèces nouvelles. C. R. Acad. Sci. Paris, 1892, **115**, 961–964; 1091–1094. 1892.1

—— Sur quelques nouvelles coccidies parasites des poissons. C. R. Mém. Soc.

Thélohan, *P.* Biol. Paris, 1892, 9. sér. **4**, 12–14. — Ann. Mag. Nat. Hist., 6. ser. **10**, 115–117. 1892.2

—— Recherches sur les myxosporidies. Bull. Sci. France Belgique, 1894, **26**, 100–394. 3 pls. & 6 figs. 1894.1

Poissons, p. 104–107.

Therese von Bayern (*Princess*) Vorläufige Mittheilung über einige neue Fischarten aus den Seen von Mexico. Anz. Akad. Wiss., Wien, 1894, **31**, 147–149. 1894.1

—— Vorläufiger Bericht über einige während einer Reise nach Südamerika 1898 gesammelte neue Fische. Anz. Akad. Wiss., Wien, 1900, **37**, 206–208. 1900.1

Therese von Bayern (*Princess*), & **Steindachner,** *Franz.* Ueber einige Fischarten Mexico's und die Seen, in welchen sie vorkommen. Denkschr. Akad. Wiss., Wien, 1895, **62**, 517–530. 3 pls. 1895.1

Théry, *André.* Note sur un esturgeon capturé dans la baie d'Alger. Bull. Soc. Hist. Nat. Afrique du Nord, 1909, 1. année, 14. 1909.1

Thesen, *Jörgen Eitzen.* Bidrag til darmkanalens histologi og physiologi hos torsken (*Gadus morrhua*) Arch. Math. Naturv., 1890, **40**, 220–231. pl. 1890.1

—— Etude sur la biologie du cœur des poissons osseux. Arch. Zool. Expér. Gén., 1896, 3. ser. **4**, 101–131. 1896.1

Material investigated: *Crenilabrus rupestris, Zoacœus viviparus, Trigla gurnardus, Conger conger, Carassius vulgaris* and *Gadus morrhua.*

—— Ueber Isokreatinin, eine neue stickstoffhaltige Verbindung im Fischfleisch. Zeitschr. Physiol. Chemie, 1898, **24**, 1–17. 1898.1

Thesing, *C.* Biologische Streifzüge. München, 1908. 1908.1

Thesleff, *E.* En record insjöforell. Tidskr. Jägare & Fisk., 1893, **1**, 227–228. pl. 1893.1

—— En trettio skålpunds forell. Fiskeritidskr. Finl., 1893, **2**, 159–161. 1893.2

—— Breflåda [sjukdom hos braxen] Fiskeritidskr. Finl., 1895, **4**, 133–134. 1895.1

Theunissen, *F.* Over de rangschikking der motorische cellen in de hersenen van *Acipenser ruthenus* en *Lepidosteus osseus.* Versl. Wis. Nat. Afd. Akad. Wet. Amsterdam, 1914, **22**, 963–971. 2 figs. — Proc. Sect. Sci. Akad. Wet. Amsterdam, 1914, **16**, 1032–1041. 2 figs. 1914.1

Close resemblance with each other and with Amia, contrasted with selachian and teleostean conditions.

Theunissen, *W. F.*, & **Kappers,** *C. U. Ariëns. See* **Kappers & Theunissen.**

Theuratte, *A. D. de la.* Les noms vulgaires et locaux des poissons d'eau douce de la France. Répertoire alphabétique et géographique. Etangs et Rivières, 1898, **11**, 6–11; 21–27; 42–45. 1898.1

Thienemann, *August.* Vorschriften bei Fischsterben. Jahresber. Fischereiver. Westfalen, 1909–10, 18–20. 1909.1

—— Die Einwirkung von bei der Papierfabrikation verwendeten Farbstoffen auf die Tierwelt des Wassers. Zeitschr. Untersuch Nahrungs- und Genussmittel, Berlin, 1911, **22**, 465–468. 1911.1

—— Die Entstehung einer neuen Coregonenform in einem Zeitraum von vierzig Jahren. Zool. Anz., 1911, **38**, 301–303. 2 figs. 1911.2

—— Die Felchen-Kolonie des Laacher Sees. Sitzber. Nat. Ver. Preuss. Rheinl. u. Westfalen 1910 (1911), **E**, 85–90. 2 figs. 1911.3

—— Hydrobiologische und fischereiliche Untersuchungen an den westfälischen Talsperren. Landwirthschaft. Jahrb., Berlin, 1911, **41**, 535–716. 3 pls. 1911.4

—— Ein neuer Erreger der Rotseuche der karpfenartigen Fische. Allgem. Fischerei Zeitg., 1911, 282–284. 1911.5

—— Der Bergbach des Sauerlandes. Faunistisch-biologische Untersuchungen. Intern. Rev. Ges. Hydrobiol. Hydrograph. Biol. Suppl., 1912, **4**, Heft 2, no. 1. 127 p. 5 figs. 1912.1

—— Die biologische Eigenart der Talsperre. Fischerei Zeitg., 1912, **15**, 605–607. 1912.2

—— Die Ernährung der Talsperrenforellen. Fischerei Zeitg., 1912, **15**, 328–331. 1912.3

—— Fischereibiologisches aus dem Dortmund-Emskanal. Jahresber. Fischereiver. Westfalen 1911 (1912) 8 p. 1912.4

—— Die Silberfelchen des Laacher Sees. Die Ausbildung einer neuen Coregonenform in einem Zeitraum von 40 Jahren. Zool. Jahrb. (*Abth. Syst.*), 1912, **32**, 173–220. 3 pls. & 2 figs. Abstract in Allgem. Fischerei Zeitg., 1911, 324–328. — Nat. Wochenschr., **27**, 364–365. 1912.5

—— Die Verschmützung der Ruhr im Sommer 1911. Zeitschr. Fischerei, Berlin, 1912, **16**, 55–86. 1912.6

—— Das Vorkommen der Flunder (*Pleuronectes flesus* L.) im Main. Arch. Hydrobiol., Stuttgart, 1912, **7**, 675–676. 1912.7

—— Die Salzwassertierwelt in Westfalen. Verh. Deutsch. Zool. Ges., 1913, **23**, 56–68. 1913.1

—— Die Ausbildung einer neuen Felchenart in einem Zeitraum von 40 Jahren. Die Naturwissenschaften, 1914, 2. Jahrg., 393–396. 2 figs. 1914.1

—— Beiträge zur Kenntnis der westfälischen Süsswasserfauna. V. Die Flunder im Dortmund-Emskanal. 43. Jahresber. Westfal. Provinz.-Ver., Zool. Sekt., 1915, 146–148. 1915.1

Thienemann, *August,* **König,** *Joseph,* & **Limprich.** *See* **König, Thienemann & Limprich.**

Thienemann, *August,* & **Spieckermann.** *See* **Spieckermann & Thienemann.**

Thienemann, *Friedrich August Ludwig* [1793–1858] Lehrbuch der Zoologie. Berlin, 1828. 1828.1

Thierfelder, *A.* Ueber das Ortsgedächtnis bei Fischen. Umschau, 1911. 1911.1

Thiergardt, *A.* Aufnahme und Ansammlung von Arsen und Blei im Körper der Fische. [n. pl.] 1897. 1897.1

Thiéry, *P.* Note sur l'Infralias de Provenchères-sur-Meuse. Chaumont, 1907. 36 p. illust. 8°. 1907.1

Stratigraphie, par P. Thiéry.
Vertébrés [poissons] par H. E. Sauvage.

Thilenius, *Georg* [1868 —] Ueber die linsenförmige Gefässkörper im Auge einiger Cypriniden. Berlin, 1892. 3 pls. 8°. 1892.1

Thilo, *Otto.* Die Sperrgelenke an den Stacheln einiger Welse, des Stichlinges und des Einhornes. Inaug. Dissert. Dorpat, 1879. 22 p. pl. & 15 figs. 8°. 1879.1

—— Die Gliedenmassen der Fische. Korrespbl. Naturf. Ver. Riga, 1896, **39**, 96–106. 1896.1

—— Die Umbildungen an den Gliedmassen der Fische. Morphol. Jahrb., 1896, **24**, 287–355. 4 pls. & 43 figs. Abstract in Korrespbl. Naturf. Ver. Riga, **39**, 96–106. — Biol. Zentralbl., **17**, no. 1. 1896.2

—— Das Präpariren mit Feilen. Anat. Anz., 1897, **14**, 191–194. 1897.1

—— Die Stacheln der Fische. Verh. Ges. Deutsch. Naturf., Leipzig, 1897, **68**, 171–176. — Nerthus, Altona, **3**, 96–97; 105–106; 123–124; 146–148; 160–162. 1897.2

—— Ergänzungen zu meiner Abhandlung " Die Umbildungen an den Gliedmassen der Fische." Morphol. Jahrb., 1898, **26**, 81–90. 1898.1

—— Die Körperformen der Fische und Seesäugethiere. Korrespbl. Naturf. Ver. Riga, 1898, **40**, 138–146. pl. & 8 figs. 1898.2

—— Nachbildungen von Sperrgelenken an Fischstacheln und Giftstacheln von Fischen. Korrespbl. Naturf. Ver. Riga, 1898, **40**, 87–88. 1898.3

—— Die Entstehung der Luftsäcke bei den Kugelfischen. Anat. Anz., 1899, **16**, 73–87. 2 pls. 1899.1

—— Ueber die Vorfahren der Schollen. Korrespbl. Naturf. Ver. Riga, 1899, **42**, 175–178. — Bull. Acad. Sci. St. Pétersb., **14**, 315–343. 2 pls. & 7 figs. — Biol. Centralbl., **22**, 717–728. 19 figs. Also separate; St. Petersburg, 1901. 4°. 1899.2

—— Ueber giftige Fische. Korrespbl. Naturf. Ver. Riga, 1899, **42**, 158. 1899.3

—— Das Ankern der Fische und Pflanzen. Korrespbl. Naturf. Ver. Riga, 1900, **43**, 18–22. 1900.1

—— Die Stacheln der Fischen als Haftorgane. Korrespbl. Naturf. Ver. Riga, 1900, **43**, 18–21. 1900.2

—— Kinematik im Tierreiche. Biol. Centralbl., 1901, **21**, no. 16, 413–428. 1901.1

—— Die Vorfahren der Schollen. Bull. Acad. Sci. St. Pétersb., 1901, 5. sér. **14**, 315–350. 2 pls. & 18 figs. — Biol. Zentralbl., **22**, no. 22, 718–728. 19 figs. 1901.2

—— Das Einsammeln und Aufbewahren zoologischer Gegenstände. Kor-

Thilo, *O.*
respbl. Naturf. Ver. Riga, 1902, **45**, 104–118. 1902.1

—— Maschine und Tierkörper. Verh. 5. Intern. Zool. Congr. Berlin, 1902, 501–503. 1902.2

—— Stellung der Augen bei den Butten. Korrespbl. Naturf. Ver. Riga, 1902, **45**, 127–128. 1902.3

—— Die Umbildungen am Knochengerüste der Schollen. Zool. Anz., 1902, **25**, 305–320. 19 figs. 1902.4

—— Das Ankern der Fische. Congr. Intern. Pêche Piscicult. St. Pétersb., 1903, pt. 1, 120–121. 1903.1

—— Die Bedeutung der technischen Wissenschaften für den Naturforscher. Umschau, Frankfurt, 1903, no. 53, 7. Jahrg., 1044–1048. 12 figs. 1903.2

—— Die Vorfahren der Schollen (Pleuronectiden) Congr. Intern. Pêche Piscicult. St. Pétersb., 1903, pt. 1, 119–120. 1903.3

—— Die Entstehung der Schwimmblasen. Vorläufige Mittheilung. Korrespbl. Naturf. Ver. Riga, 1904, **47**, 26–28. — Biol. Centralbl., **23**, 528–540. 1904.1

—— Die Luftwege der Schwimmblasen. Zool. Anz., 1906, **30**, 591–604. 3 figs. 1906.1

—— Luftdruckmesser an den Schwimmblasen der Fische. Umschau, Frankfurt, 1907, **11**, 544–548. — Werner Klinkhardt, 1908, **1**, 791–820. 7 pls. & 31 figs. 1907.1

—— The manometric apparatus of fishes; nature's mechanical adaptations. Scient. Amer. Suppl., 1907, **64**, 301–302. 7 figs. 1907.2

—— Das Schwinden der Schwimmblasen bei den Schollen. Zool. Anz., 1907, **31**, 393–406. 7 figs. 1907.3

—— Die Augen der Schollen. Biol. Centralbl., 1908, **28**, 602–608. 10 figs. — Umschau, Frankfurt, 1909. 9 figs. 1908.1

—— Die Bedeutung der Weber'schen Knöchelchen. Zool. Anz., 1908, **32**, 777–789. 7 figs. 1908.2

—— Die Entwicklung der Schwimmblase bei den Karpfen. Zool. Anz., 1908, **32**, 589–597. 5 figs. 1908.3

—— Die Sperrgelenke der Stichlinge. Aus der Natur 1907 (1908), 24. Heft. 5 figs. 1908.4

—— Die Eingeweidebrüche der Schollen. Med. Nat. Arch., 1910, **2**, 497–502. 5 figs. 1910.1

—— Leuchtkörper und Scheinwerfer im Tierreich. Natur, 1910, 167–170. 11 figs. 1910.2

—— Studies on the plectognaths. Arkiv Zool., Stockholm, 1912, **7**, no. 30. 1912.1

—— Ueber Naturforschung und Technik. Korrespbl. Naturf. Ver. Riga, 1912, **55** (*Sitzber.*), 7–8. 1912.2

—— Verknöcherte Schwimmblasen. Zool. Anz., 1913, **41**, 289–298. 6 figs. 1913.1

—— Die Vorfahren der Kugelfische. Biol. Centralbl., 1914, **34**, 523–545. 18 figs. 1914.1

Entstehung der Luftsäcke durch Erweiterung des Magens. Umwandlung des 1. Kiemenhautstrahls zum Pumpwerk. Erweiterung der Bauchhöhle. Vorfahren hatten mit *Monacanthus trossulus* grosse Aehnlichkeit.

Thimm, *C. A.* Bibliography of trypanosomiasis. Sleeping sickness Bureau. London, 1909. 228 p. 8°. 1909.1

—— Subject index to the bibliography of trypanosomiasis. Sleeping sickness Bureau. London, 1910. 13 p. 8°. 1910.1

Contains references to the trypanosomes of fishes.

Thiollière, *Victor Joseph de l'Isle* [1801–1859] Sur les poissons fossiles des calcaires lithographiques du Bugey. Ann. Soc. Agric. Lyon, 1840, **1**, xcii–xciv. 1840.1

—— Un nouveau gisement de poissons fossiles dans le Jura du département de l'Ain. Ann. Soc. Agric. Lyon, 1849, 2. sér. **1**, 43–66. 1849.1

—— Seconde notice, etc. *See* Thiollière, V., & Meyer, H. de, 1850.1, *infra.*

—— Troisième notice sur les gisements à poissons fossiles situés dans le Jura du département de l'Ain. Ann. Soc. Agric. Lyon, 1852, 2. sér. **4**, 353–446. 1852.1

—— Description des poissons fossiles provenant des gisements coralliens du Jura dans le Bugey. Lyons, 1854. 28 p. 10 pls. 1854.1

Seconde livraison [redigé par Paul Gervais] Lyon, 1873. 12 pls. *See also* Eastman, C. R., 1911.1, *supra.*

—— Partie ichthyologique de la faune de l'île de Woodlark ou Moiou (Mélanésie) Lyon, 1856. 89 p. 8°. 1856.1

—— Notice sur les poissons fossiles du Bugey, et sur l'application de la méthode de Cuvier à leur classement. Bull. Soc. Géol. France, 1858, 2. sér. **15**, 782–794. 1858.1

—— Suite des recherches sur les poissons fossiles du Bugey. Ann. Soc. Agric. Lyon, 1859, 3. sér. **2**, lviii–lxviii. 1859.1

—— Description des poissons fossiles provenant des gisements coralliens du Jura dans le Bugey. Seconde livraison. Notice in Ann. Sci. Nat. (*Zool.*), 4. sér. 1872, **1**, 200. 1872.1

Thiollière, *Victor,* & **Meyer,** *H. de.* Seconde notice sur le gisement et sur les corps organisés fossiles des calcaires lithographiques dans le Jura du département de l'Ain, comprenant la description de deux reptiles inédits provenant de ces couches, par M. Hermann de Meyer. Lyon, 1850. 80 p. 2 pls. 4°. 1850.1

Thomas, —— *Barbus ticto* Günth., die rote Barbe. Natur u. Haus, 1904, 12. Jahrg., 276–277. fig. 1904.1

Thomas, *A.*, & **White,** *G. F. See* **White & Thomas.**

Thomas, *Henry Sullivan.* Minute species of Corixa (*C. ovivora*) destructive to the ova of fishes in India. Proc. Entom. Soc., 1871, iii–iv. — Zoologist, **6**, 2532. 1871.1

—— The rod in India, being hints how to obtain sport, with remarks on the natural history of fish. Mangalore & London, 1873. xxiv, 319 p. 8°. 1873.1

—— The rod in India, with remarks on the natural history of fish, their culture and value. 2. ed. London, 1881. 25 pls. 8°. 1881.1

1. ed. Mangalore & London, 1873.

Thomas, *P.* Les poissons du Tarne (d'Albi et la Pointe-Saint-Sulpice) Rev. Hist. Sci. Littér. Départ. Tarn 1880–81 (1881), 3, 229–231. 1881.2

Thomas, *William H.B.* Description of a new species of fossil fish. Daily Times, Cincinnati, Sept. 14, 1853. 2 figs. 1853.1

Thomassy, *R.* Histoires des pêcheries dans les deux mondes. Paris, 1852. 8°. 1852.1

Thominot, *Alexandre.* Sur un Eleotris d'espèce nouvelle [*Eleotris lantzii*] Bull. Soc. Philom. Paris 1877–78 (1878,) 7 sér. **2**, 256. 1878.1

—— Note sur un poisson de genre nouveau appartenant à la famille des scombéridés, voisin des sérioles. Bull. Soc. Philom. Paris, 1880, 7. sér. **4**, 173–174. 1880.1

—— Sur un Pseudorhombus d'espèce nouvelle [*Pseudorhombus moorei*] Bull. Soc. Philom. Paris 1879–80 (1880), 7. sér. **4**, 175. 1880.2

—— Sur deux genres nouveaux de poissons faisant partie de la famille des squammipennes et rapportés d'Australie par J. Verreaux. Bull. Soc. Philom. Paris, 1881, 7. sér. **8**, 140–142. 1881.1

—— Sur un Saccodon d'espèce nouvelle venant de l'Equateur. Bull. Soc. Philom. Paris, 1882, 7. sér. **6**, 248–251. 1882.1

—— Note sur le genre Aplodon, poisson de la famille des Sparidæ, voisin des girelles. Bull. Soc. Philom. Paris, 1883, 7. sér. **7**, 141–144. 1883.1

—— Note sur un poisson de genre nouveau appartenant à la famille des sparidés. Bull. Soc. Philom. Paris, 1883, 7. sér. **7**, 140–141. 1883.2

—— Note sur un poisson de la famille des Cyprinodontidæ. Bull. Soc. Philom. Paris, 1884, 7. sér. **8**, 149–158. 1884.1

—— Sur deux poissons de la famille des labyrinthiformes appartenant au genre Ctenotoma Peters. Bull. Soc. Philom. Paris, 1886, 7. sér. **10**, 158–161. 1886.1

—— Sur quelques poissons nouveaux appartenant à la collection du Muséum d'Histoire Naturelle. Bull. Soc. Philom. Paris, 1886, 7. sér. **10**, 161–171. 1886.2

Thompson, *Beeby* [1848 —] The Upper Lias of Northamptonshire. Part 2. The paper-shales with fish and insect limestone. Journ. Northampt. Soc., 1885, **3**, 183–200. pl. 1885.1

Thompson, *D'Arcy Wentworth* [1860 —] On the hind limb of Ichthyosaurus and on the morphology of vertebrate limbs. Journ. Anat. Physiol., 1886, **20**, 532–535. 2 figs. 1886.1

—— Note on the blood corpuscles of the Cyclostomata. Ann. Mag. Nat. Hist., 1887, 5. ser. **20**, 231–233. — Anat. Anz., **2**, 630–632. 1887.1

—— On the auditory labyrinth of *Orthagoriscus mola* L. Anat. Anz., 1888, 3. Jahrg., 93–96. 4 figs. — Stud. Mus. Zool. Dundee, 1889, **1**, 4. 1888.1

Thompson, *D. W.*

—— On a supposed resemblance between the marine faunas of the arctic and antarctic regions. Proc. Royal Soc. Edinburgh, 1897–98, 311–349. 1897.1

—— Notes on the Aberdeen trawling industry with an introduction to the Aberdeen trawl and line statistics, 1901–1903. Rept. Fishery Board Scotland 1902–03 (1905), 317–353. 8 figs. & 12 charts. 1905.1

—— Report on Granton trawling statistics, 1886–1903. Rept. Fishery Board Scotland 1902–03 (1905), 259–283. 16 figs. 1905.2

—— Report on Montrose trawling statistics, 1892–1903. Rept. Fishery Board Scotland 1902–03 (1905), 285–315. 19 figs. 1905.3

—— On fluctuations in the market price of fish. 2. Rept. Fishery Invest. 1904–06 (1908), 281–295. 12 figs. 1908.1

—— Report on the statistics of the Aberdeen trawl-fishery, 1901–06, with special reference to the cod, haddock and other "round fishes." 3. Rept. Fishery Invest. 1904–06 (1908), 219–279. 86 figs. & 4 maps. — Conseil Perm. Intern. Explor. de la Mer, Rapp., **10** *B*, no. 2. 38 p. 2 pls. & 41 figs. 1908.2

—— Report on the distribution, etc., of the cod, haddock and other round fishes. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1910, **12** *C*, no. 2. 42 p. 41 figs. 1910.1

—— The works of Aristotle. Vol. iv. Historia animalium, translated and edited by D'Arcy W. Thompson. Oxford, 1910. 8°. 1910.2

Contains many notes on fishes.

—— Report on the distribution, etc., of the cod, haddock and other round fishes. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1911, **13**, 1–32. 1911.1

—— The scales of the herring as an index to age. Nature, 1911, **88**, 98. 1911.2

—— Second report on the distribution of the cod and other round fishes. Conseil Perm. Intern. Explor. de la Mer, Rapp. & Proc. Verb., 1911, **13**, no. 2. 1911.3

—— La mer du Nord et ses pêcheries. Rev. Scient., 1912, **50**, pt. 2, 548–556. 1912.1

—— The North Sea and its fisheries. Nature, London, 1912, **89**, 593–598. — Proc. Roy. Inst. Great Britain, 1912, 13 p. 1912.2

—— Third report on the distribution, etc., of the cod, haddock and other round fishes. Conseil Perm. Intern. Explor. de la Mer, 1912, **14**, 3–52. 70 figs. & 11 tables. 1912.3

—— On Aristotle as a biologist, with a proemion on Herbert Spencer. Nature, 1913, **91**, 201–204. 1913.1

—— Aberdeen fishery statistics. Fisheries Scotland Scient. Invest. 1913 (1914) 64 p. 7 figs. 1914.1

—— Aberdeen trawling statistics for the year 1912. Fisheries Scotland Scient. Invest. 1913, no. 1. 64 p. 7 maps & 23 figs. 1914.2

—— The age of a herring. Nature, 1914, **94**, 60–61. 1914.3

—— Aberdeen trawling statistics for the year 1913. Fisheries Scotland Scient. Invest. 1914 (1915), no. 3. 70 p. 10 pls. & fig. 1915.1

—— [Review of] Le scuole Ionica, Pythagorica ed Eleata; i pre-Aristotelici, I, by Aldo Mieli. Nature, 1916, **98**, 165–167. 1916.1

Thompson, *D'Arcy Wentworth,* & **Ransom,** *W. B.* *See* **Ransom & Thompson.**

Thompson, *Edward H.* Note on the breeding of eels. Bull. U. S. Fish Comm. 1884, **4**, 208. 1884.1

Thompson, *Florence D.* The thyroid and parathyroid glands throughout vertebrates, with observations on some other closely related structures. Phil. Trans. Roy. Soc. London, 1910, **201**, 91–132. 5 pls. — Proc. Roy. Soc. London, **82**, 389–390. 1910.1

Thompson, *Florence D.,* & **Vincent,** *Swale.* *See* **Vincent & Thompson.**

Thompson, (*Sir*) *Henry* [1820–1904] Fish as food. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **7**. 1883.1

Thompson, *John H.* Record of young salmon caught near Martha's Vineyard and at Seconticut neck. Bull. U. S. Fish Comm. 1881 (1882), **1**, 270. 1882.1

Thompson, *Joseph C.,* & **Gilbert,** *Charles Henry.* *See* **Gilbert & Thompson.**

Thompson, *Joseph C.*, & **Jordan,** *David Starr.* *See* **Jordan & Thompson.**

Thompson, *Lindsay G.* History of the fisheries of New South Wales. Sydney, 1893. 126 p. illust. 8°. 1893.1

Prepared for the World's Columbian Exposition, Chicago, 1893.

Thompson, *M. T.* The breeding of animals at Woods Hole during the month of September, 1908. Science, 1899, n. s. **9**, 581–583. 1899.1

Thompson, *P.* Fish and their seasons. Trans. Proc. New Zealand Inst. 1876 (1877), **9**, 484–490. 1877.1

Thompson, *P. R.* Some rare fishes caught locally. Proc. Univ. Durham Phil. Soc., Newcastle 1906–07 (1908), **3**, fig. 1908.1

Thompson, *Theophilus.* On the changes produced in the blood by the administration of cod-liver oil and cocoanut oil. Proc. Roy. Soc. London, 1854–55, **7**, 41–42. 1854.1

—— On the changes produced in the proportion of the red corpuscles of the blood by the administration of cod-liver oil. Proc. Roy. Soc. London, 1857–58, **9**, 474–478. 1857.1

—— On Lepidosiren, in a note to Dr. Gray. Proc. Zool. Soc. London, 1858, **26**, 535. 1858.1

Thompson, *William* [1805–1852] Observations on some species of native mammalia, birds and fishes, including additions to the British fauna. List of land and freshwater mollusca new to Ireland. Phil. Mag., 1834, **5**, 298–301. — Trans. Linn. Soc. London, **17**, 556–559. — L'Institut, **2**, 372–373. 1834.1

—— Some additions to the British fauna. Proc. Zool. Soc. London, 1835, **3**, 77–82. 1835.1

—— Notes relating to the natural history of Ireland, with a description of a new genus of fishes (Echiodon) Proc. Zool. Soc. London, 1837, **5**, 52–63. 1837.1

—— On the pollan [*Coregonus pollan* Thomps.] of Lough Neagh. Mag. Zool. Bot., 1837, **1**, 247–251. 1837.2

—— Contributions towards a knowledge of the Crenilabri of Ireland, including new species. Mag. Zool. Bot., 1838, **2**, 442–450. 2 pls. 1838.1

—— Note on the effects of the hurricane of 7th January 1839, in Ireland, on some birds, fishes, etc. Ann. Nat. Hist., 1838, **3**, 182–185. 1838.2

—— Notes on *Cepola rubescens* L. Mag. Nat. Hist., 1838, n. s. **2**, 214–218. 1838.3

—— On the fishes new to Ireland. Ann. Nat. Hist., 1838, **1**, 348–359. *Ibid.*, **2**, 14–28. 1838.4

—— On the red band-fish, *Cepola rubescens* Linn. Mag. Nat. Hist., 1838, 2. ser. **2**, 214–218. 1838.5

—— Observations on several British fishes, including descriptions of a new species. Ann. Mag. Nat. Hist., 1839, **2**, 402–423. — Isis (Oken), 1844, 674–677. 1839.1

i. On the British species of the genus Monochirus Cuv.
ii. Description of a minute fish allied to the *Ciliata glauca* Couch and *Gadus argentelus* Mont.
iii. On the identity of the *Trigla cuculus* Bl., with the *T. gurnardus* of authors; together with observations on two species of the genus Gobius.
iv. On the identity of *Crenilabrus multidentatus* Thomp., and *Labrus pusillus* Jenyns; with notes on the Irish Coregoni.

—— On an apparently undescribed species of Lepadogaster [*L. cephalus*] and on the *Gobius minutus* Müller, and *Cyclopterus minutus* Pallas, considered as the young of *Cyclopterus lumpus* Linn. Ann. Mag. Nat. Hist., 1839, **3**, 34–45. — Isis (Oken), 1844, 743–744. 1839.2

—— On fishes; containing a notice of one species new to the British, and of others to the Irish fauna. Ann. Mag. Nat. Hist., 1839, **2**, 266–273. 1839.3

—— Additions to the fauna of Ireland. Ann. Mag. Nat. Hist., 1840, **5**, 6–14; 245–257. *Ibid.*, 1844, **13**, 430–440. *Ibid.*, 1846, **18**, 310–315; 383–397. *Ibid.*, 1847, **20**, 169–176; 237–250. 1840.1

—— On a new genus of fishes from India [*Bregmaceros macclellandi* Cantor M. S.] Ann. Mag. Nat. Hist., 1840, **4**, 184–187. fig. 1840.2

—— On a torpedo taken on the Irish coast. Ann. Mag. Nat. Hist., 1840, **5**, 292–295. 1840.3

—— Report on the fauna of Ireland: Division Vertebrata, etc. Part 1. Rept. Brit. Assoc. Adv. Sci., 10 meet., 1840. 1840.4

—— Notes on British char, *Salmo umbla* Linn. *S. salvelinus* Don. Ann. Mag. Nat. Hist., 1841, **6**, 439–450. 1841.1

—— On a new subgenus of fishes, allied to Ophidium. Trans. Zool. Soc. London, 1841, **2**, 207–212. pl. 1841.2

Thompson, *W.*

—— On eels killed by the late frost, Feb. 1841. Ann. Mag. Nat. Hist., 1841, **6**, 75. 1841.3

—— On the species of stickleback (Gasterosteus Linn.) found in Ireland. Ann. Mag. Nat. Hist., 1841, **7**, 95–104. 1841.4

—— Report on the fauna of Ireland: Division Vertebrata, etc. Part 2. Rept. Brit. Assoc. Adv. Sci., 13. meet., 1843. 1843.1

—— Notice of the blind fish, crayfish and insects from the Mammoth cave, Kentucky. Ann. Mag. Nat. Hist., 1844, **13**, 111–113. 1844.1

—— On ova believed to be those of the large-spotted dog-fish, *Scyllium catulus* Linn. Ann. Mag. Nat. Hist., 1844, **14**, 23–27. fig. 1844.2

—— Vessels pierced by the weapon of the sword-fish. Ann. Mag. Nat. Hist., 1844, **13**, 235–236. 1844.3

—— The natural history of Ireland. 4 vols. London, 1849[–1856] illust. 8°. 1849.1

Vol. iv, edited, owing to the decease of the author, by J. R. Garrett, R. Patterson, and G. Dickie.

—— Occurrence of the boar-fish [*Capros aper*] in the bay of Portland. Zoologist, 1850, **8**, 2789. 1850.1

—— Occurrence of the porbeagle shark off the Chesil beach, also *Raia marginata* and *Labrus lineatus* at Weymouth. Zoologist, 1850, **8**, 2970. 1850.2

—— Occurrence of the tunny [*Scomber thynnus*] near Weymouth. Zoologist, 1850, **8**, 2916. 1850.3

—— Occurrence of the crested blenny [*Blennius palmicornis* Yarrell] at Portland. Zoologist, 1851, **9**, 3120. 1851.1

—— The freshwater fishes of Ulster, contributed from the MSS. by Robert Patterson and James R. Garrett. Rept. Brit. Assoc. Adv. Sci., 22. meet., 1852, 290. 1852.1

—— The variegated sole. Zoologist, 1852, **10**, 3375. 1852.2

—— Description of a specimen of the lesser forked beard [*Raniceps trifurcatus*] with an announcement of the occurrence of that and two other rare British fishes at Weymouth. Zoologist, 1853, **11**, 4097–4100. 1853.1

—— The natural history of Ireland. 4 vols. London, 1856. 8°. 1856.1

Fishes, vol. iv, p. 69–108.

—— Capture of the long-finned tunny [*Thynnus macropterus*] on the Chesil beach. Ann. Mag. Nat. Hist., 1861, 3. ser. **7**, 340. 1861.1

Thompson, *William Francis.* A preliminary report on the life-history of the halibut. Report Comm. Fisheries, Victoria, B. C. 1914 (1915), 76–120. 1915.1

—— Further notes on Erilepis, the giant bass-like fish of the north Pacific. Copeia, 1917, no. 40, 9–13. 1917.1

Thompson, *William Francis,* & **Jordan,** *David Starr. See* **Jordan & Thompson.**

Thompson, *William Francis,* & **Starks,** *Edwin Chapin. See* **Starks & Thompson.**

Thompson, *W. T.* Brook trout fry; a résumé of methods. Trans. Amer. Fisheries Soc. 1900 (1901), 139–146. 1901.1

—— Brook trout notes. Trans. Amer. Fisheries Soc. 1901 (1902), 152–158. 1902.1

—— Feeding; its effect on growth and egg production. Trans. Amer. Fisheries Soc. 1902 (1903), 125–129. 1903.1

—— The golden trout. Trans. Amer. Fisheries Soc. 1903 (1904), 208–213. 1904.1

—— Is irrigation detrimental to trout culture? Trans. Amer. Fisheries Soc. 1911 (1912), 103–114. 1912.1

Thompson, *W. Wardlaw.* Catalogue of fishes of the Cape Province. Marine Biol. Rept. Prov. Cape Good Hope, 1914, no. 2, 132–167. 1914.1

Thompson, *W. Wardlaw,* & **Gilchrist,** *J. D. F. See* **Gilchrist & Thompson.**

Thompson, *Zadock* [1796–1856] History of Vermont, natural, civil, and statistical. 3 pts. Burlington, 1842. 1842.1

A portion of this work was republished in 1858 under the title of Natural history of Vermont, etc. 224 p. Several species of fishes are described.

—— Announcement of the discovery in the state of Vermont of *Tryonyx ferox* and *Cottus gobio.* Proc. Boston Soc. Nat. Hist. 1844–48 (1848), **2**, 145. 1848.1

—— Description of a new species of Esox [*E. nobilior*] Proc. Boston Soc. Nat. Hist. 1848–51 (1851), **3**, 163; 305. 1849.1

—— On *Percopsis pellucida*. Proc. Boston Soc. Nat. Hist. 1848–51 (1851), **3**, 163–164. 1851.1

Thomsen, *Gottlob*, **Blytt,** *H. H. P.*, & others. *See* **Blytt,** *H. H. P.*, & others.

Thomson, —— Report on the distribution, etc., of the cod, haddock and other round fishes. Rapp. Cons. Intern. Expl. Mer. Copenhague, 1910. 1910.1

Thomson, (*Sir*) [*Charles*] *Wyville* [1830–1882] Notes on Prof. Steenstrup's "Views on the obliquity of flounders." Ann. Mag. Nat. Hist., 1865, 3. ser. **15**, 361–371. pl. 1865.1

—— The depths of the sea; account of the general results of the dredging cruises of "Porcupine" and "Lightning" during 1868–70. London, 1873. 527 p. illust. 8°. 1873.1

—— Voyage of the "Challenger." Deep sea life of the Atlantic. 2 vols. London, 1877. illust. 8°. 1877.1

Thomson, *G. H.* Protecting the undersized trout. Trans. Amer. Fisheries Soc. 1909 (1910), 160–161. 1910.1

—— Protection of the undersized fish. Trans. Amer. Fisheries Soc. 1912 (1913), 171–178. 1913.1

Thomson, *George Malcolm*. Notes on sea-fishes. Trans. Proc. New Zealand Inst., 1892, **24**, 202–215. 1892.1

—— Notes on the New Zealand fisheries. Trans. Proc. New Zealand Inst., 1898, **30**, 576–580. 1898.1

—— The proposed biological station and fish hatchery near Dunedin, New Zealand. Rept. Austral. Assoc. Adv. Sci., 7. meet., 1898, 576–578. 1898.2

—— The proposed biological station and marine fish hatchery near Dunedin, New Zealand. Rept. Austral. Assoc. Adv. Sci., 8. meet., 1901, 272–274. 1901.1

—— The Portobello marine fish-hatchery and biological station. Trans. Proc. New Zealand Inst., 1906, **38**, 529–558. 5 pls. 1906.1

—— The natural history of Otago harbour and the adjacent sea, together with a record of the researches carried on at the Portobello marine fish-hatchery. Part I. Trans. New Zealand Inst., 1913, **45**, 225–251. pl. 1913.1

Thomson, *J. Stuart*. The periodic growth of scales in Gadidæ and Pleuronectidæ as an index of age. Journ. Mar. Biol. Assoc., Plymouth 1900–03 (1902), n. s. **6**, 373–375. pl. 1902.1

—— The periodic growth of scales in Gadidæ as an index of age. Journ. Mar. Biol. Assoc., Plymouth, 1904, n. s. **7**, 1–109. 1904.1

Contains an excellent bibliography of the subject. *See also* Taylor, H. F., 1916.1, *supra*.

—— Das periodische Wachstum der Schuppen der Gadiden als Grundlage zur Altersbestimmung. Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 188–189. 1904.2

—— The dorsal vibratile fin of the rockling (Motella) Rept. Brit. Assoc. Adv. Sci., 81. meet., 1911, 413. 1911.1

—— The dorsal vibratile fin of the rockling (Motella) Quart. Journ. Micr. Sci., 1912, **58**, 241–256. pl. 1912.1

Thomson, *James* [1823–1900] Exhibition of the head of *Pleuracanthus gibbosus* (from the Upper Carboniferous series, Watson, Stonehouse, Lanarkshire) Trans. Geol. Soc. Glasgow 1864–67 (1867), **2**, 39–40. 1867.1

—— On teeth and dermal structure associated with Ctenacanthus. Rept. Brit. Assoc. Adv. Sci., 39. meet., 1869, 102–103. 1869.1

—— Note on the spines of Gyracanthus. Trans. Geol. Soc. Glasgow, 1871, **3**, 130–133. 1871.1

—— On some dermal tubercles associated with fossil fish remains. Ann. Mag. Nat. Hist., 1872, ser. 4, **10**, 66–67. 1872.1

—— Peculiar trout of loch Islay. Sci. Gossip 1872 (1873), 85–86. figs. 1873.1

—— Notes on Carboniferous fossils. 1. On the plagiostomous fishes of the Coal Measures, particularly *Orthacanthus dechenii* Goldfuss. Trans. Geol. Soc. Glasgow, 1874, **4**, 187–190. 1874.1

—— On a specimen of *Acanthodes wardii* Egerton, from the Lanarkshire coal-field. Trans. Geol. Soc. Glasgow, 1874, **4**, pt. 1, 57–59. pl. 1874.2

—— On *Ctenacanthus* [*Sphenacanthus*] *hybodoides* Egerton. Trans. Geol. Soc. Glasgow, 1874, **4**, pt. 1, 59–62. 1874.3

Thomson, *John Arthur* [1861 —] Outlines of zoology. Edinburgh, 1892. illust. 8°. 1892.1

—— The same. 5. ed. Edinburgh, 1910. illust. 8°. 1910.1

—— The wonder of life. London, 1914. 658 p. illust. 8°. 1914.1

Contains observations on and illustrations of fishes.

Thomson, *John H.* Capture of young salmon. Chicago Field, 1878, **11**, 260. 1878.1

—— Migrations of fish. Forest & Stream, 1878, **11**, 244. 1878.2

Thomson, *P.* Fish and their seasons. Trans. Proc. New Zealand Inst., 1877, **9**, 484–490. 1877.1

—— Concluding notes on the Dunedin fish supply. Trans. Proc. New Zealand Inst., 1879, **11**, 380–386. 1879.1

Thomson, *Thomas.* Account of a remarkable fossil (scales of fish) Ann. Phil., 1817, **9**, 342–344. 1817.1

Thorarinsson, *Bened S.* Notes on the hatcheries and fresh-water fisheries of Iceland. Bull. U. S. Fish Comm. 1887 (1889), **7**, 120–126. 1889.1

Thoreau, *Henry David* [1817–1862] A week on the Concord and Merrimack rivers. Boston, 1868. 415 p. 8°. 1868.1

Contains notes on the habits of various fishes.

Thorndike, *Edward.* A note on the psychology of fishes. Amer. Naturalist, 1899, **33**, 923–925. fig. 1899.1

Thorne, *Edwin.* Occurrence of ground sharks, Carcharinus, in Great South bay (Long Island, N. Y.) Copeia, 1916, no. 35, 69–71. 1916.1

Editorial correction to the above, by J. T. Nichols, Copeia, 1916, no. 36, 81.

Thornton, *J. Quinn.* Oregon and California in 1848. 2 vols. New York, 1849. 12°. 1849.1

Fishes, vol. i, 383–393. vol. ii, 85; 92; 379.

Thoron, *O. de.* Sur les poissons musiciens de l'Amérique du Sud. C. R. Acad. Sci. Paris, 1861, **53**, 1073. Rev. Mag. Zool., **13**, 548–549. 1861.1

—— Musical fish. Zoologist, 1870, **5**, 2109. 1870.1

Thorpe, *(Sir) Thomas Edward (editor)* [1845 —] Coal, its history and uses, etc. London, 1878. xii, 363 p. illust. 8°. 1878.1

Chapter iv. Animals of the Coal Measures, by Prof. Miall.

Thorsteinson, *A.* American halibut fisheries near Iceland. Bull. U. S. Fish Comm. 1885, **5**, 429–432. 1885.1

—— Extracts from a review of A. Annaniassen's voyage to Iceland. Rept. U. S. Fish Comm. 1884 (1886), **12**, 315–322. 1886.1

Thorup, —— Fiske- og insektaftryk paa fuur. Nat. Tidssk. (Kroyer), 1838–39, **2**, 202–203. 1838.1

Thoulet, *J.* L'aquiculture en Suisse. Bull. Soc. Centr. Aquicult. Pêche, 1890, **2**, 146–150. Also separate; Paris, 1890. 4 p. 8°. 1890.1

—— L'étude du plankton [œufs de poisson] dans les eaux français. Rev. Général. Sci., Paris, 1901, **12**, 41–44. 1901.1

Throckmorton, *S. R.* On the introduction of exotic food fishes into the waters of California. Proc. Calif. Acad. Sci., 1873, **5**, 86–88. 1873.1

—— Remarks on the introduction of shad into the waters of California. Proc. Calif. Acad. Sci., 1873, **5**, 85. 1873.2

—— On the edible qualities of the Sacramento salmon. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 373–374. 1874.1

—— Shad in California. Forest & Stream, 1874, **3**, 229. 1874.2

—— Description of the fish-way in Pitt river, California. Bull. U. S. Fish Comm. 1881 (1882), **1**, 202–204. 1882.1

—— The introduction of striped bass into California. Bull. U. S. Fish Comm. 1881 (1882), **1**, 61–62. 1882.2

Throckmorton, *S. R.*, **Redding,** *B. B.*, & **Farwell,** *J. D.* Report of the commissioners of fisheries of the state of California, for the years 1872 and 1873. San Francisco, 1874. 28 p. 8°. 1874.1

Thuesens, *J.* Foredrag om en bestyrelse for norges fiskerier og uddrag af den derover stedfundne forhandling (In Beretning om den internat. Fiskeri-udstilling, p. 41–47. Bergen, 1865) 1865.1

Thulin, *Ivar.* Note sur la dégénération physiologique des fibres musculaires striées chez des embryons de sélaciens. C. R. Soc. Biol. Paris, 1914, **76**, 186–188. 1914.1

Rôle du tissu conjonctif.

Thum, *Emil.* Talsperren als fischereichliche Anlagen. Mitth. Ver. Nat. Reichenberg, 1913, 41. Jahrg., 5–17. fig. 1913.1

Thumm, *Johannes. Haplochilus latipes* Blkr. Blätt. Aquar.-Terrar. Kunde, 1904, 15. Jahrg., 178–180. 1904.1

—— Kreuzungsversuche zwischen lebendgebärenden Kärpflingen. Natur u. Haus, 1905, **13**, 153–155. — Blätt. Aquar.-Terrar. Kunde, 1905, 16. Jahrg., 44–46. 1905.1

—— Das Laichen der Schwarznase, Ellritze und Schmerle. Blätt. Aquar.-Terrar. Kunde, 1905, 17. Jahrg., 169–171. 1905.2

—— Ueber die Zucht von Aquarien-Fischen. Wochenschr. Aquar.-Terrar. Kunde, 1906, 3. Jahrg., 580–582; 592–595; 609–610; 623–624; 638–639. 1906.1

—— *Acara cæruleo-punctata* var. latifrons Steind. Kn. Natur u. Haus, 1907, 15. Jahrg., 361–365. fig. 1907.1

—— *Geophagus tæniatus* Steind. Natur u. Haus, 1907, 15. Jahrg., 337–340. 2 figs. 1907.2

—— *Pœcilia mexicana* Steindachner. Natur u. Haus, 1907, 15. Jahrg., 369–371. fig. 1907.3

—— *Pyrrhulina brevis* Steind. Natur u. Haus, 1907, 16. Jahrg., 49–51. fig. 1907.4

—— *Tetrodon cutcutia.* Natur u. Haus, 1907, 16. Jahrg., 18–22. 1907.5

—— Geschlechtsbestimmung bei Warmwasserfischen. Intern. Rev. Hydrob. Hydrogr., 1908, **1**. 1908.1

—— *Girardinus denticulatus* Garman. Natur u. Haus 1907–08 (1908), 16. Jahrg., 14–16. 1908.2

—— Ein Beitrag zur Kenntnis von Haplochilus (*H. spilargyreus?*) Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 241–244. 3 figs. 1909.1

—— Biologisches von freilebenden Aquarienfischen. Natur u. Haus, 1909, 17. Jahrg., 209–212; 232–234; 275–278; 310–311; 325–326. 5 figs. 1909.2

—— *Pelmatochromis subocellatus* (Gthr.) Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 813–816; 829–832. 23 figs. 1909.3

—— *Pœcilia amazonica* Garman. Natur u. Haus, 1909, 17. Jahrg., 269–271. fig. 1909.4

—— Der gelbe westafrikanische Fundulus. Prakt. Zierfischzüchter, 1910, 1–3; 30–32; 41–42. 2 figs. 1910.1

—— Zur *Pœcilia reticulata-guppyi-pœcilioides*-Frage. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 442–443. 1910.2

—— Der Löwenkopffische, alias Eierfisch. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 717–718. 2 figs. 1911.1

—— Zierfische. Ihre Pflege und Zucht. Lehrmeister-Bibliothek, Leipzig, 1911, no. 70. 37 p. 10 figs. 1911.2

—— *Acara tetramerus* Heckel. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 117–120. 2 figs. 1912.1

Thunberg, *Carl Pehr* [1743–1828] Beskrifning pä *Syngnathus tetragonus* en obekandt fisk ifrän Java. Physiogr. Selsk. Handl., 1776, **1**, 301. 1776.1

—— Museum naturalium Academiæ Upsaliensis . . . Præside C. P. Thunberg, etc. 33 pts. Upsaliæ, 1787–1821. illust. 4°. 1787.1

Appendix, 26 parts. Upsaliæ, 1794–1819. A series of 61 academic dissertations, consisting of lists of specimens in, or added to, the Museum of the Upsala Academy. Parts 1–8, 30–33, and appendix 1–6, 15 & 24 relate to zoological, parts 9–29 and appendix 7–14, 16–23, 25 & 26 to botanical specimens. The pagination is very irregular: parts 1–11 (191 p.), 12–22 (p. 94–226), 30–32 (25 p.) Auctum, 2 parts (18 p.) Appendix, 1–8 (138 p.) 21, 22 (33 p.) & 23–26 (p. 24–52) are continuously paged; all the other parts are separately paged.

—— Specimen ichthyologicum de muræna et ophichtho, quod . . . præside C. P. Thunberg . . . offert J. N. Ahl. Upsaliæ, 1789. Inaug. Dissert. 14 p. 4°. 1789.1

According to Englemann, there should be two plates for this work. Reprinted in 1799.

—— Beskrifning pä tvänne fiskar ifrän Japan; *Ostracion hexagonus, Sciæna cataphracta.* Vet. Acad. Nya Handl., 1790, 106. *Ibid.*, 1792, 29. — Neue Schwed. Akad. Abh., 1790, 100. 1790.1

—— Tvänne utländska fiskar beskrifne; *Gobius patella, Silurus lineatus.* Vet. Acad. Nya Handl., 1791, 190. — Neue Schwed. Akad. Abh. 1791, 175. 1791.1

—— Atskillige förut okände fiskar af abborslägtet [Perca] Vet. Akad. Nya Handl., 1792, **13**, 141–143. *Ibid.*, 1793, **14**, 55–56; 198–200; 296–298. figs. 1792.1

Thunberg, *C. P.*

—— Tvanne Japanske fiskar beskrifne (*Callionymus japonicus* och *Silurus maculatus*) Handl. Svenska Vet. Akad., 1792, 29. 1792.2

—— Beskrifning på rya fiskar af abborrslägtet ifrån Japan. Handl. Svenska Vet. Akad., 1793, 55; 198; 296. 1793.1

—— Dissertationes academicæ Upsaliæ habitæ sub præsidio C. P. Thunberg [Edited by C. H. Persoon] 3 vols. Gottingæ, 1799–1801. illust. 8°. 1799.1

Vol. iii, no. 1. De muræna et ophichtho, etc. Jonas Nicolaus Ahl, *resp.*

—— Afhandling om de amphibier och fiskar som i Bibelon omtalas. 3 vols. Upsala, 1827. 8°. 1827.1

Thurston, *Edgar* [1855 —] Preliminary report on the marine fauna of Ráméswaram and the neighbouring islands. Government Central Museum, Madras. Madras, 1887. 41 p. 6 pls. 8°. 1887.1

Fishes, p. 22–27.

—— Note on tours along the Malabar coast (fishery) Madras, 1894. 8°. 1894.1

—— The sea fisheries of Malabar and South Canara. Bull. Madras Govt. Mus., 1900, **3**, no. 2, 93–183. 7 pls. 1900.1

Tibbetts, *N. V.* Scarcity of cod and haddock on the coast of Maine. Bull. U. S. Fish Comm. 1886 (1887), **6**, 75–76. 1887.1

Tiberg, *H. V.* Våra för fisklek bästa växter. Fiskeritidskr. Finl., 1896, **5**, 55–57. 1896.1

Tiburtius, *Tiburtz.* Försök Gjorde vid fiske-plantering i små Skogs-Sjöar. Tidskr. Jägare & Fisk., 1894, **2**, 101–105.—Fiskeritidskr. Finl., 1894, **3**, 159–160; 168–171. 1894.1

Tiburtz, *T.* Observations sur le transport des poissons d'un étang dans un autre. Journ. Phys. (Rozier), 1794, **1**, 488. 1794.1

Ticcander, *Michel* (*respondent*) Om Sysmä socken i Kymmene-gårds län, och savolax öfredels härad. Inaug. Dissert. Abo, 1792. 34 p. 4°. 1792.1

Pehr Adrian Gadd, *præses.*

Tice, *Benjamin.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 457. 1879.1

Tichenko, *S.* Ueber die Parasiten einiger Wolga-Fische [Text in Russian] Vêst. Rybopromyšl., St. Petersb., 1904, **19**, 219–243. 1904.1

—— Sur l'origine du mesenchime chez le sterlet (*Acipenser ruthenus*) Zool. Anz., 1906, **30**, 728–730. 2 figs. 1906.1

—— Bericht über eine Fahrt nach Simbirsk im Frühjahr 1905 zwecks Befruchtung von Sterleteiern [Text in Russian] Proc. Verb. Séances Soc. Nat. Univ. Kazan, 1907, **36**, 1–4. 1907.1

Tichij, *M.* Einige Worte über den Tunfisch, *Thynnus thynnus* L. [Text in Russian] Vêst. Rybopromyšl., St. Petersb., 1912, **26**, 447–453. 1912.1

—— Der Hausenfang am südwestlichen Ufer der Krim während der Saison 1910–1911. 2. Teil. Zur Frage über die Nahrung des Hausens [Text in Russian] Vêstn. Rybopromyšl., St. Petersb., 1912, **27**, 59–80. 1912.2

Tichij, *M.*, & **Nedozhivin,** *A.* *See* **Nedozhivin & Tichij.**

Tichomeroff, *A.* *See* **Tikhomirov,** *A. A.*

Tickell, *S. R.* Description of a supposed new genus of the Gadidæ, Arakan [*Asthenurus atripinnis*] Journ. Asiat. Soc. Bengal, 1865, **34**, pt. 2, 32–33. pl. 1865.1

Tiedemann, *D. Friedrich* [1781–1861] Anatomie des Fischerzens. Landshut, 1809. 41 p. 4 pls. 8°. 1809.1

—— Sonderbare Kiemenbildung bei den Nadelfischen. Deutsch. Arch. Anat. Physiol. (Meckel), 1816, **2**, 110–112. 1816.1

—— Von dem Hirn und den fingerförmigen Fortsätzen der Triglen. Deutsch. Arch. Anat. Physiol. (Meckel), 1816, **2**, 103–110. 1816.2

—— Beschreibung einiger seltenen Thier-Misgeburten. Missgestatteter Hecht. Monströse Karpfen. Arch. Anat. Physiol. (Meckel), 1819, **5**, 125. 1819.1

Tiegel, *E.* Vom Rückenmark der Schlangen und der Aale. Arch. Gesamt. Physiol., 1878, **17**, 594–600. 1878.1

Tiesing, *B.* Zur Kenntnis der Augen-, Kiefer- und Kiemenmuskeln der Haie und Rochen. Jena. Zeitschr. Naturw., 1895, **30** (n. s. **23**), 75–126. 3 pls. 1895.1

Tiesler, *W.* Die Fische der russischen Ostseeprovinzen. Natur u. Haus, 1903, 12. Jahrg., 82–83. 1903.1

Tifft, *Henry O.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 7. 1873.1

Tigri, *A.* Sulla organizazione delle anguille e sul modo di venirne a capo. Giorn. R. Accad. Med. Torino, 1872, 3. ser. **11**, 765–768. — Ann. Soc. Nat. Modena, 1873, **7**, 115–118. 1872.1

—— Sulla riproduzione delle anguille. Giorn. R. Accad. Med. Torino, 1872, 3. ser. **11**, 506; 632. 1872.2

Tikhomirov, *A. A.* Zur Entwicklung des Schädels bei den Teleostiern. Zool. Anz., 1885, **8**, 533–537. 1885.1

Tilden, *Joseph.* An account of a singular property of lamprey eels. Mem. Amer. Acad. Arts Sci., 1815, **3**, pt. 2, 335–336. 1815.1

Tilesius von Tilenau, *Wilhelm Gottlieb* [1769–1857] Ueber die sogenannten Seemäuse, oder hornartigen Fischeyer, nebst anatomisch-physiologischen Bemerkungen über die Fortpflanzungsweise der Rochen und Hayfische, etc. Leipzig, 1802. xxii, 171 p. 5 pls. 4°. 1802.1

—— Description de quelques poissons observés pendant un voyage autour du monde. Mém. Soc. Nat. Moscou, 1809, **2**, 212–249. 2 pls. 1809.1

—— Piscium Kamtschaticorum "Teerpuck" et "Wachnja" descriptiones et icones. Mém. Acad. Sci. St. Pétersb., 1810, **2**, 335–376. *Ibid.*, **3**, 225–285. 1810.1

—— Abbildungen und Beschreibungen einiger Fische aus Japan und einiger Mollusken aus Brasilien, welche bei Gelegenheit der ersten russischen kaiserlichen Erdumseglung lebendig beobachtet wurden. Denkschr. Bayer. Akad. Wiss., 1811–12, 71–88. 2 pls. *Ibid.*, 1813, 31–50. Notice in Isis (Oken), **2**, 243. 1812.1

—— Iconum et descriptionum piscium Kamtschaticorum continuatio, tentamen monographiæ generis Agoni blochiani sistens. Mém. Acad. Sci. St. Pétersb., 1813, **4**, 406–478. 1813.1

—— Animalia monocardia seu frigidi sanguinis imperii Rosso-Asiatici. . . . Supplendis quibusdam ranarum descriptionibus et iconibus inprimis piscium Camtschaticorum auxit et locupletavit G. T. Tilesius (In Pallas, P. S. Zoographia Rosso-Asiatica, etc., vol. iii. 1814. 4°) 1814.1

—— De piscium Australium novo genere. Mém. Acad. Sci. St. Pétersb., 1820, **7**, 301–310. 1820.1

—— Naturhistorische Abhandlungen und Erläuterungen besonders die Petrefactenkunde betreffend. Cassel, 1826. xiv, 154 p. illust. 4°. 1826.1

Tillier, *J. B.* Le canal de Suez et sa faune ichthyologique. Mém. Soc. Zool. France, 1902, **15**, 279–318. map. 1902.1

Tillier, *L.* Essai sur la distribution géographique des poissons de mer. Rev. Sci. Nat. Montpelier, 1879, **8** (n. s. **1**), 161–188; 305–333; 442–448. 1879.1

—— Note sur la variation chez les trigles des côtes de France. Mém. Soc. Sci. Nat. Cherbourg, 1879, **22** (3. sér. **2**), 259–286. 1879.2

—— Note sur les lois qui régissent la distribution géographique des poissons de mer. Mém. Soc. Sci. Nat. Cherbourg, 1881, **23**, 5–28. 1881.1

Tillier, *M.* Note sur la pénétration de deux espèces de poissons de la mer Rouge dans les eaux du canal de Suez. Bull. Soc. Aquic. Paris, 1913, **25**, 90–92. 1913.1

Tilljeborg, *W.* Sveriges och Norges fiskar. Upsala, 1881. 4°. 1881.1

Tilloch, *Alexander* [1759–1825] On the generation and other obscure facts in the natural history of the common eel. Phil. Mag., London, 1809, **34**, 272–277. 1809.1

Timbre, *A. M. le.* *See* **Le Timbre,** *A. M.*

Timbs, *John.* Eccentricities of the animal world; with eight engravings. London, 1869. 8°. 1869.1

Fish-talk, p. 250–280. Fish in British Columbia, p. 281–287.

Tims, *H. W. Marett.* On the structure of the scales in the cod. Rept. Brit. Assoc. Adv. Sci., 72. meet., 1903, 660–661. 1903.1

—— The development, structure and morphology of the scales in some teleostean fishes. Quart. Journ. Micr. Sci., 1905, n. s. **49**, 39–68. pl. 1905.1

—— A suggestion as to the nature of the horny teeth of the Marsipobranchii.

Tims, *H. W. M.*
Proc. Cambridge Phil. Soc., 1906, **13**, 383–386. 1906.1

Tingle, *G. R.* Report on salmon fisheries in Alaska, 1896. Rept. U. S. Inspector Salmon Fisheries, Washington, 1897. 8°. 1897.1

Tirant, *A.* Notes sur les poissons de la Basse Cochinchine et du Cambodge. Cochinchine Française, Excursions et Reconnaissances, 1885, **9**, 2. *Ibid.*, 1886, **10**, 1–198. — Zool. Anz., 1886, **9**, 237. 1885.1

Tisdale, *S. T.* Fish-culture in New England. 5. Ann. Rept. Comm. Inland Fish. Mass., 1871, 24–28. 1871.1

—— Habits of the black bass. Amer. Naturalist, 1871, **5**, 361–364. 1871.2

Tissandier, *Albert.* Pêche aux saumons dans la Colombie britannique. La Nature, 1895, **22**, pt. 2, 134–138. 1895.1

Titcomb, *John W.* Wild trout spawn; methods of collection and utility. Trans. Amer. Fisheries Soc. 1897 (1898), 73–86. 3 figs. 1898.1

—— Desirability of state organization for the promotion of fish-culture and for the procurement of state legislation for the propagation and protection of food and game fishes. Trans. Amer. Fisheries Soc. 1898 (1899), 120–125. 1899.1

—— The Canadian red trout. 6. Ann. Rept. Forest, Fish. & Game Comm. N. Y. 1900 (1901), 353–356. 1901.1

—— Report on the propagation and distribution of food-fishes. Rept. U. S. Fish. Comm. 1902 (1904), **28**, 22–110. fig. 1904.1

—— Reminiscences of the fisheries in South America. Trans. Amer. Fisheries Soc. 1905 (1906), 117. pl. 1906.1

—— Progress and experiments in fish-culture in the Bureau of Fisheries during the fiscal year 1906 (1907) Trans. Amer. Fisheries Soc. 1907 (1908), 98–115. 2 figs. 1908.1

—— Fish-cultural practices in the U. S. Bureau of Fisheries. Proc. 4. Internat. Congr. Washington. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 2, 697–757. 13 pls. & 13 figs. 1910.1

—— How fish are hatched. I. Fish-cultural practices in the United States Bureau of Fisheries. Scient. Amer. Suppl., 1910, **70**, 136–139; 152–155; 161–164; 180–182; 196–199. 39 figs. 1910.2

Tizard, *Thomas Henry,* & **Murray,** *(Sir) J.* Exploration of the Faroe channel during . . . 1880 in Her Majesty's hired ship " Knight Errant " . . . with subsidiary reports, etc. Proc. Roy. Soc. Edinburgh 1881 (1882) 83 p. figs. & map. 1882.1

Contains a subsidiary report on fishes by A. Günther.

Tod, *E. M.* Wet fly-fishing methodically treated. London, 1909. illust. 8°. 1909.1

Todaro, *Francesco.* Contribuzione alla anatomie e alla fisiologia de' tubi di senso de' Plagiostomi. Messina, 1870. 2 pls. 4°. 1870.1

—— Die Geschmacksorgane der Rochen. Vorläufige Mitteilung Centralbl. Med. Wiss., 1872, **10**, 227–229. 1872.1

—— Les organes du goût et la muqueuse bucco-branchiale des sélaciens. Arch. Zool. Expér. Gén., 1873, **2**, 535–558. pl. 1873.1

Todd, *Frank.* Pickerel in salt water. Forest & Stream, 1877, **8**, 320. 1877.1

—— Occurrence of salmon in Restigouche and St. Croix rivers due to artificial propagation. Bull. U. S. Fish. Comm. 1881 (1882), **1**, 275. 1882.1

Todd, *John T.* Some observations and experiments made on the torpedo of the cape of Good Hope in the year 1812. Phil. Trans. Roy. Soc. London, 1816, 120–126. — Phil. Mag., **48**, 14–18. — Journ. Chem. Phys. (Schweigger), **19**, 14–20. — Isis (Oken), **7**, 843. 1816.1

—— Account of some experiments on the *Torpedo electricus*, at La Rochelle. Phil. Trans. Roy. Soc. London, 1817, 32–35. 1817.1

Todd, *R. A.* Notes on the invertebrate fauna and fish-food of the bays between the Start and Exmouth. Journ. Mar. Biol. Assoc., 1900–03, n. s. **6**, 541–561. 1903.1

—— Report on the food of fishes collected during 1903. Rept. North Sea Fish. Invest. Comm. 1902–03, no. 2, 227–287. *Ibid.*, 1904–05, pt. 1, 49–163. 6 figs. 1903.2

—— Covered net experiments. 3. Rept. Mar. Biol. Assoc. Intern. Fish. Invest., 1906–08, 177–206. 4 figs. & 8 tables. 1908.1

Todd, *R. A.*, & **Allen,** *E. J. See* **Allen & Todd.**

Todd, *Robert Bentley* [1809–1860] The cyclopædia of anatomy and physiology. 5 vols. in 6. London, 1853–59. illust. 8°. 1859.1

Törnebohm, *A. E.*, & **Hennig,** *A.* Beskrifning till blad 1 & 2 omfattande de topografiska kartbladen Landskrona, Lund, Kristianstad, Malmö, Ystad, Simrishamn. Sver. Geol. Unders., 1904, ser. A 1a, 1–198. 3 pls. & 73 figs. 1904.1

Contains references to fossil fishes.

Tokuhisa, *Mikusa.* Examination of some diatoms found in the digestive organ of a smelt (*Plecoglossus altivelis*) from the Tama river [Text in Japanese] Suisan Koshyujo Shiken Hokoku, Tokyo, 1908, **4**, 57–77. — Rept. Fisheries Inst. Tokyo, 1908, **4**, 13–36. 2 pls. 1908.1

Tokunaga, *Shigeyasu.* Fossils from the environs of Tokyo. Journ. Coll. Sci., Tokyo, 1906, **21**, art. 2, 1–96. 6 pls. 1906.1

Some fossil fishes are noted.

Tolputt, *A. G.*, & **Reid,** *E. Waymouth. See* **Reid & Tolputt.**

Tomaselli, *Andrea.* Alcune particolarità di struttura delle cellule nervose dei gangli spinali e cefalici di *Ammocœtes branchialis* e di *Petromyzon planeri.* Anat. Anz., 1907, **30**, 229–232. 4 figs. 1907.1

Tomes, *Charles Sissmore* [1846 —] On the development of the teeth of fishes (Elasmobranchii and Teleostei) Proc. Roy. Soc. London, 1875, **23**, 362–364. — Phil. Trans. Roy. Soc. London, 1877, **166**, 257–267. 1875.1

—— On the hinged teeth of the common pike. Quart. Journ. Micr. Sci., 1788, n. s. **18**, 1–6. — British Journ. Dental. Sci., 1878, **21**, 347–352. Abstract in Chicago Field, 1878, **10**, 51. 1878.1

—— On the structure and development of vascular dentine. Proc. Roy. Soc. London, 1878, **26**, 43–47. — Phil. Trans. Roy. Soc. London, **169**, 25–47. 1878.2

—— Upon the structure and development of the enamel of elasmobranch fishes. Phil. Trans. Roy. Soc. London, 1898, **190**, 443–464. 2 pls. Abstract in Proc. Roy. Soc. London, **63**, 54–56. — Journ. Roy. Micr. Soc. London, 408–409. 1898.1

—— On differences in the histological structure of teeth occurring within a single family, the Gadidæ. Quart. Journ. Micr. Sci., 1899, **41**, 459–469. pl. 1899.1

—— Upon the development of the enamel in certain osseous fish. Phil. Trans. Roy. Soc. London, 1900, **193**, 35–46. pl. Abstract in Proc. Roy. Soc. London, **66**, 61–63. 1900.1

Tomfohrde, *T.* Die Heringsfischereiperiode an der Bohuslänküste von 1556–89. Berlin, 1909. 45 p. 1909.1

Tomkinson, *J. R.* Results of propagating salmon. Rept. U. S. Fish Comm. 1878 (1880), **6**, 931. 1880.1

Tomlin, *W. David.* Landlocked salmon in Michigan. Forest & Stream, 1879, **12**, 125. 1879.1

—— The golden-eye (Hyodontidæ) Amer. Angler, 1884, **6**, 84. 1884.1

—— Migration of lake Superior fish. Trans. Amer. Fisheries Soc. 1887 (1888), 60–64. 1888.1

—— A suggestion; the specialist in fish-culture. Trans. Amer. Fisheries Soc. 1893 (1894), 154–159. 1894.1

—— The distribution of the trout family. Trans. Amer. Fisheries Soc. 1895 (1896), 49–51. 1896.1

—— Advancement in fish production. Trans. Amer. Fisheries Soc. 1897 (1898), 93–100. 1898.1

Tommaselli, *Giuseppe.* Alla pregiatissima Siga. Elisabetta Caminer Turra. Seconda lettera del Sig. Ab. Testa su i del Sig. Ab. Fortis. Verona, 1793. 1793.1

Relates to Eocene fishes of monte Bolca, near Verona.

—— Estratto della lettera del Sig. Ab. Fortis al Sig. Ab. Testa sopra i pesci ischeletriti de' monti di Bolca. Verona, 1793. 1793.2

—— Estratto della lettera su i pesci fossili del monte Bolca del Sig. Ab. Domenico Testa. Milano & Verona, 1793. 1793.3

—— Del monte Bolca, della sua pesciaia e degli annessi monti Colonnari ad uso specialmente de' viaggiatori naturalisti, co' suoi rami (In Montanari, P. Compendio della Verona illustrata specialmente ad uso de' forestieri. Verona, 1795. 8°) 1795.1

Tommasi, *Annibale.* La faunetta anisica di Valsecca in Val Brembana.

Tommasi, *A.* Rendic. Istit. Lombardo, 1913, 2. ser. **46**, 767–786. 4 figs. 1913.1

Tommasini, *C.* Vocabolario generale di pesca, con le voci corrispondenti nei vari dialetti del regno. Parte 1, A-G. Torino, 1906. 8°. 1906.1

Toms, *H. S.* File-fish at Brighton. Zoologist, 1901, 4. ser. **5**, 225–226. fig. 1901.1

Tona, *A.* Osservazioni intorno agli effetti fisiologici sul pesce del cangiamento nella densità dell' acqua. Neptunia, Venezia, 1908, **23**, 51–52. 1908.1

Toni, *E. de.* Sopra un caso teratologico riscontrato nella sogliola. Bull. Soc. Venet. Frenso., 1888, **4**. 1888.1

Toni, *Giambattista B. de.* Degli studi intorno agli alimenti dei pesci (a proposito di una recente pubblicazione del Dr. Mario Suster) Nuova Notarisia, 1900, **10**, 21–27. 1900.1

—— La nutrizione della sardina [Clupea] Boll. Notiz. Agrar. Roma, 1908, **5**, 1035–1036. 1908.1

Tonnings, *Heinrich.* Beschreibung des Fisches Sympen (Ulk) [*Cottus scorpius*] Schrift. Drontheim. Ges., 1766, **2**, 312–316. 2 pls. 1766.1

Tornaeus, *Johannes J.* Prostens och Kyrko- herdens i Torneå Mag. Johannis J. Tornaei. Beskrifning öfver Torneå och Kemi Lappmarken, författad år 1772. Stockholm, 1772. 68 p. 1772.1

Tornier, *Gustav.* Der Kampf der Gewebe im Regenerat bei Missverhalten des Unterhautbindegewebes. Arch. Entw.-Mech. Leipzig, 1906, **22**, 461–472. 9 figs. 1906.1

—— Ueber experimentelles Hervorrufen und Naturentstehen von Mopsköpfen, Cyclopen und anderer vorgeburtlichen Kopfverbildungen bei Wirbeltieren. Sitzber. Ges. Naturf. Freunde Berlin, 1908, 298–315. 37 figs. 1908.1

—— Vorläufiges über das Entstehen der Goldfischrassen. Sitzber. Ges. Naturf. Freunde Berlin, 1908, 40–45. 1908.2

—— Ueber die Art, wie äussere Einflüsse den Aufbau des Tieres abändern. Verh. Deutsch. Zool. Ges., 1911, 21–91. 1911.1

Angaben über die Ergebnisse von Stockard an *Fundulus heteroclitus* und von Tornier über durch Dotterverquellung hervorgerufene Mops- und Rund- kopfbildung bei Fischen (*Gadus æglefinus*).

Tornier, *Gustav,* **Pappenheim,** *P.*, **Matschie,** *P.*, & **Reichenow,** *A.* *See* **Matschie, Reichenow** & others.

Tornquist, *A.* Ein Rhadinichthys [*R. argentinicus*, n. sp.] aus dem Karbon Süd-Amerikas. Zeitschr. Deutsch. Geol. Ges., 1904, **56**, 346–351. 3 pls. 1904.1

A diagram of the head structure is reproduced by C. R. Eastman in Bull. State Geol. Nat. Hist. Surv. Conn., 1911, no. 18, p. 59.

Torossi, *G. B.* Il *Barbus plebejus* nel Vicentino, e sugli animali utili e nocivi ai pesci della provincia di Vicenza. 2 pts. Vicenza, 1887–88. 8°. 1887.1

—— I pesci e i molluschi fluviatili della provinzia di Vicenza. Vicenza, 1887. 32 p. 4 pls. 8°. 1887.2

—— La vita e la metamorfosi dell' anguilla: una conferenza. Vicenza, 1898. 29 p. 8°. 1898.1

Torralbas, *J. I.* Elogio del iltmo. Sr. Dr. D. Nicolas José Gutierrez. Anal. Acad. Cienc. Habana, 1891, **28**, 459–513. 1891.1

Torres, *Luis Maria.* Arqueología de la cuenca del río Paraná. Rev. Mus. La Plata, 1907, **14**, 53–120. 45 figs. 1907.1

Contains incidental mention of fish-remains.

Torre y Huerta, *Carlos de la.* Sobre tres peces cogidos en los alrededores de la Habana. Anal. Acad. Cienc. Habana, 1910, **46**, 81. 1910.1

Tosh, *James R.* On the rate of growth of marine fishes (Cyclopterus, Cottus, Agonus and Liparis) 12. Ann. Rept. Fishery Board Scotland, 1894, 333–335. 1894.1

—— Report on certain salmon investigations conducted on the river Tweed during the net and rod seasons of 1894. 13. Ann. Rept. Fishery Board Scotland, 1895, pt. 2, 47–66. 1895.1

—— Marine biologist's report. Notes on the habits, development, etc., of the common food fishes of Moreton bay. Brisbane, 1903. 8 p. 12 pls. 4°. 1903.1

—— On the common whiting of Moreton bay (*Sillago bassensis*) Proc. Roy. Soc. Queensland, 1903, **17**, 175–184. 7 pls. 1903.2

—— Internal parasites of the Tweed salmon, chiefly marine in character. Ann. Mag. Nat. Hist., 1905, 7. ser. **15**, 115. 1905.1

Tosh, *James R.*, & **Williamson,** *H. C.* *See* **Williamson & Tosh.**

Totton, *A. Knyvett.* The structure and development of the caudal skeleton of the teleostean fish, *Pleuragramma antarcticum*. Proc. Zool. Soc. London, 1914, 251–262. 2 pls. 1914.1

Earlier appearance of hypaxial elements. Persistence of enormous notochord. Doubling of neural and hæmal arches. Compound nature of hypurals.

Toula, *Franz* [1845 —] Die Fische, ihre Lebensgeschichte, die Ursachen ihrer Abnahme und die Mittel, derselben entgegen zu wirken. 2. Auflage. Prag, 1874. 16 p. 8° (Sammlung gemeinnütziger Vortrage, Heft 14) 1874.1

—— Ueber einen dem Thunfische verwandten Raubfisch der Congerienschichten der Wiener Bucht (*Pelamycybium sinus-vindobonensis*, n. g. et n. sp.) Jahrb. Geol. Reichsanst., Wien, 1905, **55**, 51–84. pl. & 11 figs. 1905.1

—— Die Acanthicus-Schichten im Randgebirge der Wiener Bucht bei Giesshübl (Mödling W. N. W.) Verh. Geol. Reichsanst., Wien, 1907, 299–305. 1907.1

Contains mention of fossil fishes.

—— Eine jungtertiäre Fauna von Gatun am Panamakanal. Jahrb. Geol. Reichsanst., Wien, 1908, **58**, 673–760. 4 pls. 1908.1

Tourneux, *F.*, & **Legoff,** *A.* *See* **Legoff & Tourneux.**

Toussaint, *A. J. D. Steenstra.* *See* **Steenstra-Toussaint,** *A. J. D.*

Toussaint, *Fr. W.* Zur Künstlichen Forellenzucht. Deutsch. Landw. Presse, 1877, 4. Jahrg., 132–133. 1877.1

Tower, *Ralph Winfred* [1870 —] Biliary calculi in the squeteague [*Cynoscion regalis*] Bull. U. S. Fish Comm. 1901 (1902), **21**, 131–135. pl. 1902.1

—— The gas in the swim-bladder of fishes. Bull. U. S. Fish Comm. 1901 (1902), **21**, 125–130. 1902.2

—— The voices of fishes. Bull. N. Y. Zool. Soc., 1906, no. 21, 278–279. 1906.1

—— The production of sound in the drumfishes, the sea-robin and the toadfish. Ann. N. Y. Acad. Sci., 1908, **18**, 149–180. 4 pls. & 5 figs. 1908.1

Tower, *Ralph Winfred,* & **Green,** *Erik H.* *See* **Green & Tower.**

Tower, *Walter Sheldon.* The passing of the sturgeon; a case of the unparallelled extermination of a species. Pop. Sci. Monthly, 1908, **73**, 361–371. 1908.1

Townsend, *Charles Haskins* [1859 —] Practically the entire contents of the earlier numbers of the Bulletin of the New York Zoological Society, from April 1904 to March 1910, and all of the unsigned articles on ichthyology from 1903 to date were written by Dr. Townsend.

Following are some of the titles of unsigned articles in the Bulletin: The sea horse; Food of fishes; The rudd; Transportation of sharks; Fishes killed by freezing; Do fishes sleep; Do fishes hear; Have fishes memory; American fishes in New Zealand; Sunapee trout; How fishes change color; Care of goldfishes; Fishes which defend their young; Poisonous fishes; The drum fish; Blind fishes; Foods of freshwater fishes; Long-lived fishes; The sturgeons; Electrical fishes; Fishes that fly and climb; Luminous fishes; Water-throwing habits of fishes; The carp problem; Fishing with poisons; The burbot; The thread fish; The swell fish.

—— Dredging and other records of the United States Fish Commission Steamer "Albatross," with bibliography relative to the work of the vessel. Rept. U. S. Fish Comm. 1900 (1901), 387–562. 4 pls. & 3 maps. 1901.1

—— Deep-sea explorations (In The new international encyclopedia, vol. vi, p. 740–743. pl. & 5 figs. 1902) 1902.1

—— References to fish, with photographs, in the New York Aquarium. Bull. N. Y. Zool. Soc., 1903, 73–76. 1903.1

—— Report of the division of statistics and methods of the fisheries. Rept. U. S. Fish Comm. 1902 (1904), **28**, 143–160. 1904.1

—— Notes and photos of the fishes in the New York Aquarium. Bull. N. Y. Zool. Soc., 1905, 205–211; 216–220. 1905.1

—— The cultivation of fishes in natural and artificial ponds. 11. Ann. Rept. N. Y. Zool. Soc., 1906, 89–112. 11 figs. 1906.1

—— A large tarpon (*Tarpon atlanticus*) in the New York Aquarium. Bull. N. Y. Zool. Soc., 1906, 316. 1906.2

—— Mosquito larvæ as food for whitefish fry. Bull. N. Y. Zool. Soc., 1906, 266–267. 1906.3

—— Remarks on the value of radiographs as zoological illustrations. 10.

Townsend, *C. H.*
Ann. Rept. N. Y. Zool. Soc. 1905 (1906), 117–126. 9 figs. 1906.4

—— Pollution of streams. An appeal to anglers. 12. Ann. Rept. N. Y. Zool. Soc., 1907, 97–103. 1907.1

—— Observations on instantaneous changes in color among tropical fishes. 13. Ann. Rept. N. Y. Zool. Soc., 1908, 93–120. 12 pls. 1908.1

—— Chameleons of the sea. Some new observations on instantaneous color changes among fishes. Century Mag., Sept. 1910. 7 p. pl. & figs. 1910.1

—— Zoological results of the "Albatross" voyage. Bull. N. Y. Zool. Soc., 1911, 774. 1911.1

—— The private fish pond; a neglected resource. Trans. Amer. Fisheries Soc. 1913 (1914), 87–92. 1914.1

—— The power of the shark-sucker's disk. Zool. Soc. Bull., 1915, **18**, 1281–1283. 3 figs. 1915.1

—— [On the adhesive power of Echeneis] (In Eastman, C. R. The Reversus, a fishing tale of Christopher Columbus. Sci. Monthly, 1916, **3**, 39) 1916.1

Townsend, *Charles Haskins,* & **Barbour,** *Thomas.* Description of a new species of sea-horse from Bermuda. Bull. N. Y. Zool. Soc., 1906, no. 23, 304–305. 1906.1

Townsend, *Charles Haskins,* & **Gill,** *Theodore Nicholas. See* **Gill** & **Townsend.**

Townsend, *Charles Haskins,* & **Smith,** *Hugh McCormick.* The Pacific salmons (In Sage, D., & others. Salmon and trout, p. 153–190. New York, 1902) 1902.1

Townsend, *Charles W.* A case of mistaken diagnosis [Spine of dog-fish (*Squalus americanus*) mistaken for bill of royal tern (*Sterna regia*)] Auk, Cambridge, Mass., 1903, n. s. **20**, 218–219. 1903.1

Townsend, *John Kirk* [1809–1851] Narrative of a journey across the Rocky mountains to the Columbia river, etc. Boston, 1839. 352 p. 8°. 1839.1

A few incidental notices of salmon and trout are given. The work was reprinted in England under the following title:

—— Sporting excursions in the Rocky mountains, etc. 2 vols. London, 1840. pl. 8°. 1840.1

Trabucco, *Giacomo* [1845 —] Fossili, stratigrafia ed età dei terreni dei Casentino (Toscana) Boll. Soc. Geol. Ital., 1900, 19. anno, 699–721. 2 pls. 1900.1

—— Fossili, stratigrafia ed età dei terreni della repubblica di S. Marino. Atti Soc. Tosc. Sci. Nat., 1906, **16**, Proc.-Verb., 7–12. 1906.1

Contains some references to fossil fishes.

Trachenberg, *E. W.* Die natürliche Nahrung unserer Teichfische. Allgem. Fischerei Zeitg., 1896, 21. Jahrg., 374–377. 1896.1

Tracy, *Henry C.* The common fishes of the herring family. 36. Ann. Rept. Comm. Inland Fisheries Rhode Island, 1906, 100–102. 6 pls. 1906.1

—— A list of the fishes of Rhode Island. 36. Ann. Rept. Comm. Inland Fisheries Rhode Island, 1906, 38–99. 12 pls. 1906.2

—— Annotated list of fishes known to inhabit the waters of Rhode Island. 40. Ann. Rept. Comm. Inland Fisheries Rhode Island, 1910, 35–176. 1910.1

—— The morphology of the swim-bladder in teleosts. Science, 1910, n. s. **31**, 471. 1910.2

—— The morphology of the swim-bladder in teleosts (Preliminary statement) Anat. Anz., 1911, **38**, 600–606; 638–649. 10 figs. 1911.1

Träber-Klotzsche, *G.* Bemerkungen über *Girardinus januarius* var.? Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 803–804. 1909.1

—— Beobachtungen über *Ambassis lala* und dessen Laichakt. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 29–31. fig. 1910.1

—— *Fundulus gularis* var. A (blau), seine Pflege und Aufzucht. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 246–248; 263–264. fig. 1910.2

—— Weitere Beobachtungen über *Fundulus gularis* Blgr. var. A (blau) und seine Entwickelung. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 469–472. fig. 1910.3

—— *Belonesox belizanus* Kner. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 117–119. fig. 1911.1

—— *Fundulus gularis* var. B; der gelbe Fundulus, seine Pflege und Aufzucht. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 233–235; 251–253. fig. 1911.2

—— *Fundulus sjöstedti* Lönnb. und seine Zucht. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 669–671. fig. 1911.3

—— *Girardinus januarius* var. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 118–119. 1911.4

—— *Haplochilus cameronensis* Blgr. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 773–775. fig. 1911.5

—— Pelmatochromis sp. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 333–334. 1911.6

—— *Rasbora heteromorpha.* Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 229–230. 1911.7

—— *Scatophagus argus.* Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 333–335; 383–384. 2 figs. 1911.8

—— *Fundulus arnoldi,* seine Pflege und Aufzucht. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 351–353. fig. 1912.1

—— Haplochilus cf. *H. petersii* Sauvage. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 33–35. fig. 1912.2

—— *Haplochilus? senegalensis* Steind. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 17–18. fig. 1912.3

—— Ein neuer Kampffisch, Betta spec.? von Sumatra. Seine Haltung und Lebensweise im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 819–821. fig. 1912.4

—— Zur Aufzucht des *Haplochilus cameronensis.* Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 133–134. fig. 1912.5

—— *Cynolebias bellotti* Stdr., seine Pflege und Aufzucht. Blätt. Aquar.-Terrar. Kunde, 1914, 25. Jahrg., 289–291. fig. 1914.1

Traherne, *John P.* The habits of the salmon. London, 1889. vii, 163 p. 8°. 1889.1

—— Les habitudes du saumon en eau douce. Bull. Soc. Centr. Aquicult. Pêche, 1890, **2**, 87. 1890.1

Traill, *J.* The Greenland shark [*Scymnus borealis*] Scottish Naturalist, 1871–72, **1**, 48–49. 1872.1

Traill, *Thomas Stewart* [1781–1862] Description of a new species of Cephalus, which it is proposed to name *Cephalus cochranei,* Cochrane's sunfish. Mem. Wern. Nat. Hist. Soc. Edinburgh 1826–31 (1832), **6**, 381–383. 1832.1

—— Description of a Silurus, known in Demerara by the name of " gilbacke." Mem. Wern. Nat. Hist. Soc. Edinburgh 1826–31 (1832), **6**, 377–380. 1832.2

—— Notice of the fossil fishes found in the Old Red Sandstone formation of Orkney, particularly of an undescribed species, Diplopterus Agassiz. Trans. Roy. Soc. Edinburgh, 1841, **15**, 89–92. 1841.1

—— Observations on the fossil fishes lately found in Orkney. Proc. Roy. Soc. Edinburgh 1840–41 (1845), **1**, 37–38. 1845.1

Trapani, *Gætano.* A catalogue of the different kinds of fish of Malta and Gozo, with their Maltese, Latin, Italian, English and French names, as well as their seasons. Malta, 1838. 4°. 1838.1

Traquair, *Ramsay Heatley* [1840–1912] For partial bibliography, *see* List of the scientific writings of Ramsay Heatley Traquair, 1862–94. Edinburgh, 1894. 10 p. 8°. Also list appended to biographical sketch in Geol. Mag., 1909, 5. dec. **6**, 242–250. For biographical sketch, *see* Horne, *J.*, in Proc. Roy. Soc. Edinburgh, 1914, **33**, 336–341. For obituary notice, *see* Woodward, A. S., in Nature, 1912, **90**, 363–364.

—— Observations on the development of the Pleuronectidæ. Proc. Roy. Phys. Soc. Edinburgh, 1865, **3**, 215–222. 1865.1

—— On the asymmetry of the Pleuronectidæ as elucidated by an examination of the skeleton in the turbot, halibut and plaice. Trans. Linn. Soc. London (*Zool.*), 1865, **25**, 263–296. 4 pls. 1865.2

—— Observations on the internal structure of Calamoichthys, a new genus of ganoid fish from Old Calabar. Ann. Mag. Nat. Hist., 1866, 3. ser. **18**, 114–117. — Proc. Roy. Soc. Edinburgh, **5**, 657–659. 1866.1

—— Description of *Pygopterus greenockii* Agass. with notes on the structural relations of the genera Pygopterus, Amblypterus and Eurynotus. Trans. Roy. Soc. Edinburgh, 1867, **24**, 701–714. pl. 1867.1

Traquair, *R. H.*

—— Notes on *Calamoichthys calabaricus* J. A. Smith. Journ. Roy. Geol. Soc. Ireland, 1871, n. s. **2**, 249–254. 1871.1

—— Notes on the genus Phaneropleuron Huxley, with a description of a new species from the Carboniferous formation. Geol. Mag., 1871, **8**, 530–535. pl. 1871.2

—— On the cranial osteology of Polypterus. Journ. Anat. Physiol., London, 1871, **5**, 166–183. pl. 1871.3

—— On the restoration of the tail in *Protopterus annectens* Owen. Rept. Brit. Assoc. Adv. Sci., 41. meet., 1871, 143. 1871.4

—— On the so-called tailless trout of Islay. Journ. Anat. Physiol., London, 1872, **6**, 411–416. pl. 1872.1

—— Supplementary note on Phaneropleuron and Uronemus. Geol. Mag., 1872, **9**, 271–272. 1872.2

—— On a new genus [Ganorhynchus] of fossil fish of the order Dipnoi. Geol. Mag., 1873, **10**, 552–555. pl. & fig. 1873.1

—— On *Phaneropleuron andersoni* Huxley, and *Uronemus lobatus* Agass. Journ. Roy. Geol. Soc. Ireland, 1873, n. s. **3**. pl. 1873.2

—— Description of *Cycloptychius carbonarius* Huxley, from the Coal Measures of north Staffordshire. Geol. Mag., 1874, 2. dec. **1**, 241–246. pl. 1874.1

—— On *Uronemus magnus*, a new fossil fish from the Coal Measures of Airdire, Lanarkshire. Geol. Mag., 1874, 2. dec. **1**, 554. 1874.2

—— On some fossil fishes from the neighbourhood of Edinburgh. Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 258–268. pl. 1875.1

—— On the structure and affinities of *Tristichopterus alatus* Egert. Trans. Roy. Soc. Edinburgh, 1875, **27**, 383–396. pl. 1875.2

On the structure and systematic position of the genus Cheirolepis. Ann. Mag. Nat. Hist., 1875, 4. ser. **15**, 237–249. pl. 1875.3

—— On the structure of *Amphicentrum granulosum* Huxley. Ann. Mag. Nat. Hist., 1875, 4. ser. **16**, 273–282. pl. 1875.4

—— Monograph on the ganoid fishes of the British Carboniferous formations. Part I, no. 1. Palæoniscidæ. Mongr. Palæontogr. Soc., 1877. 7 pls. 1877.1

Part I, no. 2 was published in 1901; no. 3 in 1907; no. 4 in 1909; no. 5 in 1911; and no. 6 in 1912. These are separately listed below.

—— On new and little known fossil fishes from the Edinburgh district. 3 pts. Proc. Roy. Soc. Edinburgh, 1877, **9**, 262–272; 275–282; 427–444. 1877.2

—— On the Agassizian genera Amblypterus, Palæoniscus, Gyrolepis and Pygopterus. Quart. Journ. Geol. Soc., 1877, **33**, 548–578. 1877.3

—— On the structure of the lower jaw in Rhizodopsis and Rhizodus. Ann. Mag. Nat. Hist., 1877, 4. ser. **19**, 300–305. 1877.4

—— On the genera Dipterus, Palædaphus, Holodus and Cheirodus. Ann. Mag. Nat. Hist., 1878, 5. ser. **2**, 1–17. pl. 1878.1

—— On the genus Rhizodus. Proc. Roy. Soc. Edinburgh, 1878, **9**, 657–660. 1878.2

—— On the species of Rhadinichthys from the Coal Measures. Proc. Roy. Phys. Soc. Edinburgh, 1878, **4**, 237–245. 1878.3

—— Evidence as to the predaceous habits of the larger Palæoniscidæ. Proc. Roy. Phys. Soc. Edinburgh, 1879, **5**, 128–130. 1879.1

—— Fossil fishes from the Edinburghshire and Linlithgowshire oil shales. Proc. Roy. Phys. Soc. Edinburgh, 1879, **5**, 113–128. 1879.2

—— On the structure and affinities of the Platysomidæ. Trans. Roy. Phys. Soc. Edinburgh, 1879, **29**, 343–391. 4 pls. 1879.3

Reviewed by E. D. Cope in Amer. Naturalist, 1840, **14**, 439–440.
The Platysomidæ are here for the first time interpreted as deep-bodied Palæoniscids.

—— The history of Scottish fossil ichthyology. Opening address. Proc. Roy. Phys. Soc. Edinburgh, 1880, **5**, 137–161. 1880.1

—— Report upon a collection of fossils from Nairnshire, made by Messrs. Thomas D. Wallace and Alexander Ross of Inverness. Trans. Geol. Soc. Edinburgh, 1880, **3**, 215–217. 1880.2

—— "Kammplatten" [ichthyodorulites] in the ironstone of borough Lee. Geol. Mag., 1881, 2. dec. **8**, 334–335. 1881.1

—— Notice of new fish-remains from the blackband ironstone of borough Lee, near Edinburgh. Geol. Mag., 1881, 2. dec. **8**, 34–37. — No. 2. *Ibid.*, 491–494. 1881.2

Elasmobranchs, dipnoans and ganoids.

—— On the cranial osteology of Rhizodopsis. Trans. Roy. Soc. Edinburgh, 1881, **30**, 167–179. 3 figs. 1881.3

—— Report on fossil fishes collected by the geological survey of Scotland in Eskdale and Liddesdale. Trans. Roy. Soc. Edinburgh, 1881, **30**, 15–71. 6 pls. 1881.4

—— Notice of new fish-remains from the blackband ironstone of borough Lee, near Edinburgh. No. 3. Geol. Mag., 1882, 2. dec. **9**, 540–546. 1882.1

—— On specimens of "tailless" trout from loch Enoch, Kirkcudbrightshire. Proc. Roy. Phys. Soc. Edinburgh, 1882, **7**, 29–30. 1882.2

—— Notice of new fish-remains from the blackband ironstone of borough Lee, near Edinburgh. No. 4. Geol. Mag., 1883, 2. dec. **10**, 542–544. 1883.1

—— Description of a fossil shark (*Ctenacanthus costellatus*) from the Lower Carboniferous rocks of Eskdale, Dumfriesshire. Geol. Mag., 1884, 3. dec. **1**, 3–8. pl. 1884.1

—— Description of a new species of Elonichthys from the Lower Carboniferous rocks of Eskdale, Dumfriesshire. Geol. Mag., 1884, 3. dec. **1**, 8–10. 1884.2

—— Notes on the genus Gyracanthus Agassiz. Ann. Mag. Nat. Hist., 1884, 5. ser. **13**, 37–48. — Proc. Roy. Phys. Soc. Edinburgh, **8**, 91–105. 1884.3

—— Notice of new fish-remains from the blackband ironstone of borough Lee, near Edinburgh. No. 5. Geol. Mag., 1884, 3. dec. **1**, 64–65. 1884.4

—— Remarks on the genus Megalichthys Agassiz with description of a new species. Geol. Mag., 1884, 3. dec. **1**, 115–121. pl. — Proc. Roy. Phys. Soc. Edinburgh, 1884, **8**, 67–77. 1884.5

—— On a specimen of *Psephodus magnus* Agassiz, from the Carboniferous limestone of East Kilbride, Lanarkshire. Trans. Geol. Soc. Glasgow, 1885, **7**, 392–402. pl. — Geol. Mag., 3. dec. **2**, 338–344. pl. 1885.1

—— New Palæoniscidæ from the English Coal Measures. Geol. Mag., 1886, 3. dec. **3**, 440–442. 1886.1

—— On Harpacanthus, a new genus of Carboniferous selachian spines. Ann. Mag. Nat. Hist., 1886, 5. ser. **18**, 493–496. 2 figs. 1886.2

—— Remarks on the fossils of the bone-bed at Abden, Fifeshire. Trans. Geol. Soc. Edinburgh, 1886, **5**, 314–315. 1886.3

—— Notes on *Chondrosteus acipenseroides*, Agassiz. Geol. Mag., 1887, 3. dec. **4**, 248–257. 5 figs. 1887.1

—— Further notes on Carboniferous Selachii. Geol. Mag., 1888, 3. dec. **5**, 101–104. — Proc. Roy. Phys. Soc. Edinburgh, **9**, 421–426. 1888.1

—— New Palæoniscidæ from the English Coal Measures. No. 2. Geol. Mag., 1888, 3. dec. **5**, 251–254. 1888.2

—— Notes on Carboniferous Selachii. Geol. Mag., 1888, 3. dec. **5**, 81–86; 101–104. — Proc. Roy. Phys. Soc. Edinburgh, **9**, 412–421. — Amer. Geologist, **2**, 133. 1888.3

—— Notes on the nomenclature of the fishes of the Old Red Sandstone of Great Britain. Geol. Mag., 1888, 3. dec. **5**, 507–517. 1888.4

—— On the structure and classification of the Asterolepidæ. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 485–504. 2 pls. — Proc. Roy. Phys. Soc. Edinburgh, 1888, **10**, 23–46. 2 pls. 1888.5

—— Homosteus Asmuss, compared with Coccosteus Agassiz. Geol. Mag., 1889, 3. dec. **6**, 1–8. pl. — Proc. Roy. Phys. Soc. Edinburgh, 1889, **11**, 47–57. pl. 1889.1

—— Note on the genera Tristychius and Ptychacanthus Agassiz. Geol. Mag., 1889, 3. dec. **6**, 27–28. 1889.2

—— On a new species of Dipterus. Geol. Mag., 1889, 3. dec. **6**, 97–99. pl. 1889.3

—— On the systematic position of the dendrodont fishes. Geol. Mag., 1889, 3. dec. **6**, 490–492. 1889.4

—— List of the fossil Dipnoi and Ganoidei of Fife and the Lothians. Proc. Roy. Phys. Soc. Edinburgh, 1890, **17**, 385–400. 1890.1

—— Notes on the Devonian fishes of Sacumenac bay and Campbellton in

Traquair, *R. H.*
Canada. Geol. Mag., 1890, 3. dec. **7**, 15–22. 1890.2

See also Whiteaves, J. F., 1881.2 and 1887.1. *infra.*

—— Notice of new and little known fish-remains from the blackband ironstone of borough Lee, near Edinburgh. No. 6. Geol. Mag., 1890, 3. dec. **7**, 249–252. 1890.3

—— Observations on some fossil fishes from the Lower Carboniferous rocks of Eskdale, Dumfriesshire. Ann. Mag. Nat. Hist., 1890, 6. ser. **6**, 491–494. 1890.4

—— On a new species of Gyracanthus. Ann. Mag. Nat. Hist., 1890, 6. ser. **6**, 417. 1890.5

—— On Phlyctænius, a new genus of Coccosteidæ. Geol. Mag., 1890, 3. dec. **7**, 55–60. pl. 1890.6

Name altered to Phlyctænaspis. *Ibid.*, p. 144.

—— On the fossil fishes found at Achanarras quarry, Caithness. Ann. Mag. Nat. Hist., 1890, 6. ser. **6**, 479–486. 4 figs. 1890.7

Description of *Palæospondylus gunnii*, p. 485.

—— On the structure of *Coccosteus decipiens*. Ann. Mag. Nat. Hist., 1890, 6. ser. **5**, 125–136. pl. — Proc. Roy. Phys. Soc. Edinburgh, 211–224. pl. 1890.8

—— On Phlyctænaspis, a new genus of Coccosteidæ. Proc. Roy. Phys. Soc. Edinburgh, 1891, **10**, 227–235. pl. 1891.1

—— [Review of] Catalogue of the fossil fishes in the British Museum (Natural History), part II, by A. S. Woodward. Geol. Mag., 1891, 3. dec. **8**, 123–129. 1891.2

—— [Description of *Homacanthus borealis*, a new selachian from the Lower Old Red of Caithness] Trans. Geol. Soc. Edinburgh, 1892, **6**, 205–208. pl. 1892.1

—— List of the type and figured specimens in the "Powrie collection" of fossils. Ann. Scottish Nat. Hist., 1892, **1**, 31–39. 1892.2

—— A new fossil fish from Dura Den. Ann. Scottish Nat. Hist., 1892, **1**, 233–235. 1892.3

—— Note on an abnormally developed thornback (*Raia clavata* L.) Ann. Scottish Nat. Hist., 1892, **1**, 29–30. fig. 1892.4

—— On malformed trout from Scottish waters. Ann. Scottish Nat. Hist., 1892, **1**, 92–103. 3 pls. 1892.5

—— A further description of *Palæospondylus gunni* Traquair. Proc. Roy. Phys. Soc. Edinburgh, 1893, **12**, 87–94. pl. — Ann. Mag. Nat. Hist., 6. ser. **6**, 485. 1893.1

—— Notes on the Devonian fishes of Campbellton and Scaumenac bay in Canada. No. 2. Geol. Mag., 1893, 3. dec. **10**, 145–149; 262–267. fig. 1893.2

—— Notes on the fossil fish from the Marl slate, passed through in No. 2 shaft, Deaf Hill colliery, county Durham. Trans. Manchester Geol. Soc., 1893, **22**, 191. 1893.3

—— On a new palæoniscid fish, *Myriolepis hibernicus*, from the Coal Measures, county Kilkenny, Ireland. Geol. Mag., 1893, 3. dec. **10**, 54–56. pl. 1893.4

—— On the British species of Asterolepidæ. Proc. Roy. Phys. Soc. Edinburgh, 1893, 283–286. 1893.5

—— On the discovery of Cephalaspis in the Caithness flags. Ann. Scottish Nat. Hist., 1893, 206–207. 1893.6

—— [Review of] Fauna der Gaskohle und der Kalksteine der Permformation Böhmens, by Anton Fritsch. Geol. Mag., 1893, 3. dec. **10**, 175–178. 1893.7

—— An unusually coloured example of the thornback (*Raia clavata* Linn.) Ann. Scottish Nat. Hist., 1893, **2**, 25. pl. 1893.8

—— Achanarras revisited. Proc. Roy. Phys. Soc. Edinburgh, 1894, **12**, 279–286. 2 figs. 1894.1

—— The fishes of the Old Red Sandstone of Britain. Part II, no. 1. The Asterolepidæ. Monogr. Palæontogr. Soc., 1894, 63–90. 4 pls. & 17 figs. 1894.2

Part 2 of this classic work was published in 1904, and Part 3 in 1906. *See infra.*

—— Notes on Palæozoic fishes. No. 1. Ann. Mag. Nat. Hist., 1894, 6. ser. **14**, 368–374. pl. 1894.3

—— On a new species of Diplacanthus, with remarks on the acanthodian shoulder-girdle. Geol. Mag., 1894, 4. dec. **1**, 254–257. 1894.4

—— On *Cephalaspis magnifica*, a new fossil fish from the Caithness flagstones. Proc. Roy. Phys. Soc. Edinburgh, 1894, **12**, 269–273. pl. 1894.5

—— On *Psammosteus taylori*, a new fossil fish from the upper Old Red Sandstone of Morayshire. Ann. Scottish Nat. Hist., 1894, **3**, 225–226. fig. 1894.6

—— *Palæospondylus gunni* Traq., from the Caithness flagstones. Ann. Scottish Nat. Hist., 1894, **3**, 94–98. pl. 1894.7

—— A still further contribution to our knowledge of *Palæospondylus gunni*. Proc. Roy. Phys. Soc. Edinburgh, 1894, **12**, 312–321. pl. — Ann. Mag. Nat. Hist., 6. ser. **6**, 485. 1894.8

—— Notes on the fossil fish from the Marl slate. Trans. Manchester Geol. Soc., 1895, **22**, 194–195. 1895.1

—— The deal-fish (*Trachypterus arcticus* Brünn.) in Shetland. Ann. Scottish Nat. Hist., 1896, **5**, 159–160. 1896.1

—— The extinct vertebrata of the Moray firth area (In Harvie-Brown, J. A., & Buckley, T. E. Vertebrate fauna of the Moray basin, vol. ii, p. 235–285. 9 pls. Edinburgh, 1896) 1896.2

—— Notes on the occurrence of some rare fishes in Scottish waters. Ann. Scottish Nat. Hist., 1896, **5**, 158–160. 1896.3

—— On fossil fishes from the Lower Devonian of Gemünden, Germany. Abstract in Nature, 1896, **54**, 263. 1896.4

—— Additional notes on the fossil fishes of the upper Old Red Sandstone of the Moray firth area. Proc. Roy. Phys. Soc. Edinburgh, 1897, **13**, 376–385. 2 pls. 1897.1

—— [Exhibition of a specimen of the supposed fossil lamprey (*Palæospondylus gunni*) from the Old Red Sandstone of Caithness] Proc. Zool. Soc. London, 1897, 313–314. 1897.2

—— List of the fossil fish-remains occurring in the bone-bed at Abden, near Kinghorn, Fifeshire. Proc. Geol. Assoc. London, 1897, **15**, 143–145. 1897.3

—— Note on the affinities of *Palæospondylus gunni* Traq., in reply to Dr. Bashford Dean, of New York. Proc. Zool. Soc. London, 1897, 314–317. 1897.4

—— On *Cladodus neilsoni* (Traquair) from the Carboniferous limestone of east Kilbride. Trans. Geol. Soc. Glasgow, 1897, **11**, 41–50. pl. 1897.5

—— The bearing of fossil ichthyology on the doctrine of evolution. Trans. Geol. Soc. Glasgow, 1898, **11**, 269–270. 1898.1

—— Notes on Palæozoic fishes. No. 2. Ann. Mag. Nat. Hist., 1898, 7. ser. **2**, 67–70. pl. 1898.2

—— On a peculiar charr from Inverness-shire. Ann. Scottish Nat. Hist., 1898, **7**, 78–79. 1898.3

—— On *Cladodus neilsoni* Traq., from the Carboniferous limestone of east Kilbride. Trans. Geol. Soc. Glasgow, 1898, **11**, 41–50. pl. 1898.4

—— On a new species of Cephalaspis, discovered by the Geological Survey of Scotland, in the Old Red Sandstone of Oban. Trans. Roy. Soc. Edinburgh, 1899, **39**, 591–593. pl. & 3 figs. 1899.1

—— On *Thelodus pagei* (Powrie) from the Old Red Sandstone of Forfarshire. Trans. Roy. Soc. Edinburgh, 1899, **39**, 595–602. pl. 1899.2

—— Report on fossil fishes collected by the Geological Survey of Scotland in the Silurian rocks of the south of Scotland. Trans. Roy. Soc. Edinburgh, 1899, **39**, 527–564. 5 pls. & 6 figs. 1899.3

—— The bearings of fossil ichthyology on the problem of evolution. Geol. Mag., 1900, 4. dec. **7**, 463–470; 516–524. 1900.1

—— [The evolution of fishes] Presidential address [before Section D, Zoology] Rept. Brit. Assoc. Adv. Sci., 1900, 70. meet., 768–783. — Nature, **62**, 440–449; 502–508. 1900.2

—— Ichthyological notes. Ann. Scottish Nat. Hist., 1900, 87–90. pl. & fig. 1900.3

—— Notes on *Drepanaspis gemündenensis* Schlüter. Geol. Mag., 1900, 4. dec. 1900, **7**, 153–159. 3 figs. 1900.4

—— The ganoid fishes of the British Carboniferous formations. Part I, no. 2. Palæoniscidæ. Monogr. Palæontogr. Soc., 1901, 61–87. 11 pls. 1901.1

No. 1 was published in 1877, no. 3 in 1907, no. 4 in 1909, and no. 5 in 1911.

—— *Gyracanthus falciformis*, n. sp. Mem. Geol. Surv. United Kingdom, London, 1901, 181. 1901.2

—— List of the Carboniferous fishes of the west of Scotland (In British Assoc. Handbook of Nat. Hist. of Glasgow and the west of Scotland, p. 512–516. Glasgow, 1901) 1901.3

Traquair, *R. H.*

—— Notes on the Lower Carboniferous fishes of eastern Fifeshire. Geol. Mag., 1901, 4. dec. **8**, 110–114. 1901.4

—— Additional notes on *Drepanaspis gemündenensis* Schlüter. Geol. Mag., 1902, 4. dec. **9**, 289–291. 2 figs. 1902.1

—— Note on the fossil fishes of the Old Red Sandstone of Scotland (In Mem. Geol. Surv. Scotland, Explan. Sheet no. 85, p. 81–82. Glasgow, 1902) 1902.2

—— On a Scottish specimen of the blackfish, *Centrolophus niger* (Gmelin) Ann. Scottish Nat. Hist., 1902, **11**, 10–13. pl. 1902.3

—— On the fossil fishes of the Lower Devonian roofing-slate of Gemünden in Germany. Rept. Brit. Assoc. Adv. Sci., 72. meet., 1902, 610. 1902.4

—— Hugh Miller and his palæichthyological work. Trans. Geol. Soc. Glasgow, 1903, **12**, 257–258. 1903.1

—— The Lower Devonian fishes of Gemünden. Trans. Roy. Soc. Edinburgh, 1903, **40**, 723–739. 7 pls. & 3 figs. 1903.2

Reviewed by Bashford Dean in Science, 1904, n. s. **19**, 64–65.

—— On the distribution of fossil fish-remains in the Carboniferous rocks of the Edinburgh district. Trans. Roy. Soc. Edinburgh, 1903, **40**, 687–707. 2 pls. 1903.3

—— The fishes of the Old Red Sandstone of Britain. Part II, no. 2. The Asterolepidæ. Monogr. Palæontogr. Soc., 1904, 91–118. 8 pls. & 10 figs. 1904.1

Part 1 of this work was published in 1894, and Part 3 in 1906.

—— Note on the fish-remains [*Holoptychius nobilissimus* Ag.] recently collected by the Geological Survey of Scotland at Salisbury Crags, Craigmillar, Clubbiedean reservoir and Torduff reservoir, in the Edinburgh district. Rept. Brit. Assoc. Adv. Sci., 74. meet., 1904, 547. 1904.2

—— On the fauna of the upper Old Red Sandstone of the Moray firth area. Rept. Brit. Assoc. Adv. Sci., 74. meet., 1904, 547–548. 1904.3

—— Notes on the Lower Carboniferous fishes of eastern Fifeshire. Proc. Roy. Phys. Soc. Edinburgh, 1905, **16**, 80–86. pl. v. 1905.1

—— Supplementary report on fossil fishes collected by the Geological Survey of Scotland in the Upper Silurian rocks of Scotland. Trans. Roy. Soc. Edinburgh, 1905, **40**, 879–888. 3 pls. & 4 figs. 1905.2

—— Supplement to the Lower Devonian fishes of Gemünden. Trans. Roy. Soc. Edinburgh, 1905, **41**, 469–475. 3 pls. 1905.3

—— The vertebrate animals of the coal period. Trans. Geo. Soc. Glasgow, 1905, **12**, 224–225. 1905.4

—— The fishes of the Old Red Sandstone of Britain. Part II, no. 3. The Asterolepidæ. Monogr. Palæontogr. Soc., 1906, **40**, 119–130. 5 pls. & figs. 1906.1

Part ii, no. 1 of this work was published in 1894, no. 2 in 1904, and no. 4 in 1913.

—— A new palæoniscid fish from the base of the Pendleside series near Holywell, Flint. Geol. Mag., 1906. 5. dec. **3**, 556–557. 2 figs. 1906.2

Description of *Elonichthys denticulatus*, sp. nov.

—— Notes on the fish-remains from Watergate bay in Cornwall (In Reid, C., & Scrivenor, J. B. The geology of the country near Newquay. Mem. Geol. Surv. United Kingdom, 1906, sheet 346, p. 11) 1906.3

—— The ganoid fishes of the British Carboniferous formations. Part I, no. 3. Palæoniscidæ. Monogr. Palæontogr. Soc., 1907, **61**, 87–106. 5 pls. 1907.1

—— Report on fossil fishes collected by the geographical survey of Scotland from shales exposed on the shore near Gullane, East Lothian. Trans. Roy. Soc. Edinburgh, 1907, **46**, 103–117. 2 pls. & 2 figs. 1907.2

—— On fossil fish-remains collected by J. S. Flett, from the Old Red Sandstone of Shetland. Trans. Roy. Soc. Edinb., 1908, **46**, 321–329. 2 pls. & 3 figs. 1908.1

—— Ganoid fishes of the British Carboniferous formations. Part I, no. 4. Palæoniscidæ. Monogr. Palæontogr. Soc., 1909, **63**, 107–122. 7 pls. 1909.1

See note under 1912.1, *infra.*

—— Notes on fossil fish-remains from Nyasaland, collected by Mr. A. R. Andrew and Mr. T. E. G. Bailey. Quart. Journ. Geol. Soc., 1910, **66**, 249–251. pl. 1910.1

—— Ganoid fishes of the British Carboniferous formations. Part I, no. 5.

Palæoniscidæ. Monogr. Palæontogr. Soc., 1911, 123–158. 35 pls. & 8 figs. 1911.1

See note under 1912.1, *infra.*

—— Les poissons wealdiens de Bernissart. Mém. Mus. Roy. Hist. Nat. Belgique, 1911, **6**, 1–65. 12 pls. & 21 figs. 1911.2

Reviewed by L. Hussakof in Science, 1912, n. s. **35**, 306.

—— The ganoid fishes of the British Carboniferous formations. Part I, no. 6. Palæoniscidæ. Monogr. Palæontogr. Soc., 1912, 159–180. pls. 1912.1

No. 1 was published in 1877, no. 2 in 1901, no. 3 in 1907, no. 4 in 1909, and no. 5 in 1911.

Traube-Mengarini, *Margherita.* Experimentelle Beiträge zur Physiologie des Fischgehirnes. Arch. Anat. Physiol. (*Phys. Abth.*), 1884, 553–565. 4 figs. 1884.1

—— Ricerche sui gas contenuti nella vescica natatoria dei pesci. Atti Accad. Lincei, Rendic., 1887, 4. ser. **3**, 55–62. 1887.1

—— Ueber die Gase in der Schwimmblase der Fische. Arch. Anat. Physiol. (*Phys. Abth.*), 1889, 54–63. 1889.1

Trautshol'd, *Ghermann Adol'fovich. See* **Trautschold,** *Hermann von.*

Trautschold, *Hermann von* [1817–1902] Nomenclator palæontologicus der jurassischen Formation in Russland. Bull. Soc. Imp. Nat. Moscou, 1862, **35**. 52 p. map. 1862.1

—— Fischreste aus dem Devonischen des Gouvernements Tula. Nouv. Mém. Soc. Imp. Nat. Moscou, 1874, **13**, 263–276. 2 pls. 1874.1

Figures and describes various species of Cladodus, Orodus, Helodus, Psammodus, etc. The formation is probably later than Devonian.

—— Die Kalkbrüche von Mjatschkowa. Eine Monographie des oberen Bergkalks. Nouv. Mém. Soc. Imp. Natur, Moscou, 1874, **13**, 277–326. 4 pls. 1874.2

—— Elements of geology. Part 2, Palæontology [Text in Russian] Moskva, 1875. vi, 244 p. illust. 8°. 1875.1

—— Fossil fishes of the Devonian of Tula, and Carboniferous limestone of Mjatschkowa, Russia. Abstract in Amer. Journ. Sci., 1876, 3. ser. **11**, 234. 1876.1

—— Ueber Dendrodus und Coccosteus. Verh. K. Mineral. Ges. St. Petersburg, 1880, 2. ser. **15**, 139–156. 8 pls. 1880.1

—— Ueber Fischzähne des Moskauer Jura. Bull. Soc. Imp. Nat. Moscou, 1880, **55**, pt. 1, 193–197. 1880.2

—— Ergänzung zur Fauna des russischen Jura. Verh. K. Mineral. Ges. St. Petersburg, 1877, 2. ser. **12**. 35 p. 6 pls. 1877.1

—— Ueber *Bothriolepis panderi* Lahusen. Bull. Soc. Imp. Nat. Moscou 1880 (1881), **55**, pt. 2, 169–179. pl. & fig. 1881.1

—— Ueber Tomodus Agass. Bull. Soc. Imp. Nat. Moscou 1880 (1881), **55**, pt. 2, 139–140. 1881.2

—— Ueber Edestus und einige andere Fischreste des Moskauer Bergkalks. Bull. Soc. Imp. Nat. Moscou, 1883, **57**, pt. 2, 160–174. pl. & 3 figs. 1883.1

—— Ueber das Genus Edestus. Bull. Soc. Imp. Nat. Moscou, 1886, **61**, pt. 1, 94–99. 1886.1

—— Ueber *Edestus protopirata* Trd. Zeitschr. Deutsch. Geol. Ges., 1888, **40**, 750–753. 2 figs. 1888.1

—— Ueber *Coccosteus megalopteryx* Trd., *Coccosteus obtusus* und *Cheliophorus verneuili* Ag. Zeitschr. Geol. Ges., 1889, **41**, 35–48. 4 pls. 1889.1

—— Ueber vermeintliche Dendrodonten. Zeitschr. Deutsch. Geol. Ges., 1889, **41**, 621–634. 3 pls. 1889.2

—— Ueber *Protopirata centrodon* Trd. Bull. Soc. Imp. Nat. Moscou, 1890, n. s. **4**, 317–321. fig. 1890.1

Travell, *Warren.* Paddle-fish found in mud. Copeia, 1914, no. 4, 4. 1914.1

Travers, *William Thomas Locke* [1819–1903] On the absence of the eel from the upper waters of the Waiau-ua and its tributaries. Trans. Proc. New Zealand Inst., 1870, **2**, 120–122. 1870.1

Treacher, *Llewellyn,* & **Osborne,** *Harold J.* The higher zones of the upper Chalk in the western part of the London basin. Proc. Geol. Assoc. London, 1906, **19**, 378–399. map & 2 figs. 1906.1

Treacher, *Llewellyn,* & **White,** *H. O. See* **White & Treacher.**

Treadwell, *A. L.* The use of modelling clay in the study of the fish-embryo. Journ. Applied Micr., 1898, **1**, 146–147. 4 figs. 1898.1

Tregellas, —— The maigre off Yarmouth. Zoologist, 1875, 2. ser. **10**, 4725–4726. 1875.1

Tréhouart, *François Thomas* [1798–1873] Voyage en Island et au Groënland, exécuté . . . sur . . . "La Recherche," commandée par M. Tréhouart, etc. 7 vols. & atlas. Paris, 1838–52. 8°. 1838.1

Treichel, *A.* Diebische Fischangelei. Mitth. Westpreuss. Fischerei Ver., 1893, **5**, 1–3. 1893.1

Trêmeau de Rochebrune. *See* **Rochebrune,** *Trêmeau de.*

Trendelenburg, *Paul.* Ueber die Sauerstofftension im Blute von Seefischen. Zeitschr. Biol., 1912, **57**, 495–506. 2 figs. 1912.1

Treschow, *Alfred von.* Mikroskopische Untersuchungen und Gedanken über Natur und Entstehung des Schaumnestes der Osphromeniden. Blätt. Aquar.-Terrar. Kunde, 1908, 19. Jahrg., 645–647; 666–667. 1908.1

Treskow-Weissagk, —— *von.* Von der Karpfenbörse zu Cottus. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 295. 1878.1

—— What dangers threaten the products of the old pond carp fisheries from artificial fish-culture? Bull. U. S. Fish Comm. 1883, **3**, 303–304. 1883.1

Tretjakoff, *D.* Die Entstehung der äusseren Ampulle [in Ammocœtes] Anat. Anz., 1908, **32**, 165–174. 3 figs. 1908.1

—— Die peripherische und zentrale Endigung des Gehörnerven bei Ammocœtes und *Petromyzon fluviatilis.* Folia Neuro-Biol., Leipzig, 1908, **1**, 14–29. pl. & 2 figs. 1908.2

—— Nervus mesencephalicus bei Ammocœtes. Anat. Anz., 1909, **34**, 151–157. 3 figs. 1909.1

—— Das Nervensystem von Ammocœtes. I. Das Rückenmark. II. Gehirn. Arch. Mikr. Anat., 1909, **73**, 607–680. 3 pls. *Ibid.*, 1910, **74**, 636–779. 9 pls. 1909.2

—— Ueber das Gehirn von Ammocœtes [Text in Russian] St. Petersburg, 1910. iv, 161 p. 12 pls. 8°. 1910.1

—— Die zentralen Sinnesorgane bei Petromyzon. Arch. Mikr. Anat., 1913, **83**, 1. Abth., 68–117. 2 pls. 1913.1

—— Die Parietalorgane von *Petromyzon fluviatilis.* Zeitschr. Wiss. Zool., 1915, **113**, 1–112. 5 pls. & 6 figs. 1915.1

Augenähnlichkeit genügt nicht um Funktion zu erklären. Organ innerer Sekretion. Ursprüngliche Paarigkeit unwahrscheinlich.

Treuenfels, *Paul.* Die Zähne von *Myliobatis aquila.* Inaug. Dissert. Breslau, 1896. 34 p. 3 pls. 8°. Abstract in Zool. Anz., 1895, **18**, 115–116. 1896.1

Trevelyan, *W. C.* Sur quelques anguilles privées. L'Institut, 1841, **9**, 331–332. 1841.1

Treviranus, *Gottfried Reinhold* [1776–1837] Biologie, oder Philosophie der lebenden Natur für Naturforscher und Aerzte. 6 vols. Göttingen, 1802–22. 8°. 1802.1

—— Vergleichende Beschreibung des Skelets vom Rochen und Hayfische. Arch. Zool. (Wiedemann), 1804, **4**, pt. 2, 54–74. 1804.1

—— Ueber das Saugen und das Geruchsorgan der Insecten, und über den Nutzen der Schwimmblase bei den Fischen. Annal. Wetterau. Ges. Naturk., 1812, **3**, 147–161; 334–344. fig. 1812.1

—— Ueber die Verrichtung der Schwimmblase bei den Fischen. Vermischte Schrift. Anat. Physiol., 1817, **2**, 156–170. 1817.1

—— Untersuchungen über den Bau und die Functionen des Gehirns, der Nerven und der Sinneswerkzeuge in den verschiedenen Klassen und Familien des Thierreichs. Vermischte Schrift. Anat. Physiol., 1820, **3**. 1820.1

—— Beiträge zur näheren Kenntniss der Zeugungstheile und der Fortpflanzung der Fische. Zeitschr. Physiol. (Tiedemann), 1826, **2**, 3–16. fig. 1826.1

—— Mémoires pour servir à donner une connaissance plus exacte des parties génitales et de leur fonction chez les poissons. Bull. Sci. Nat. (Férussac), 1826, **9**, 358–359. 1826.2

—— Ueber Entwickelungsgeschichte der Thiere. Königsberg, 1828. 8°. 1828.1

—— Untersuchungen über die Kiemen der Fische. Isis (Oken), 1830, 684. 1830.1

—— Ueber die hinteren Hemisphären des Gehirns der Vögel, Amphibien und Fische. Zeitschr. Physiol. (Tiedemann), 1831, **4**, 39–68. 1831.1

—— Beobachtungen aus der Zootomie und Physiologie von G. R. Treviranus. Nach dessen Tode heraus-

gegeben von L. C. Treviranus. Heft 1. Bremen, 1839. iv, 128 p. illust. 4°. 1839.1

Treviranus, *G. R.*, & **Treviranus**, *L. C.* Vermischte Schriften anatomischen und physiologischen Inhalts. 4 vols. Göttingen & Bremen, 1816–21. illust. 4°. 1816.1

Review in Isis (Oken), 1818, **7**, 1191; *Ibid.*, 1822, **9**, 966.

Treviranus, *Ludolph Christian* [1779–1864] Untersuchungen über die wichtigsten Gegenstände der Naturwissenschaft und Medizin. Göttingen, 1803. 8°. 1803.1

Tribolet, *G. de.* Les fossiles vivants. Bull. Soc. Nat. Neuchâtel, 1899, **27**, 47–53. 1899.1

Refers to Ceratodus, Notornis and Neomylodon.

Tricht, *B. van.* On the influence of the fins upon the form of the trunk-myotome. Proc. Akad. Wet. Amsterdam, Sect. Sci., 1907, **9**, 814–818. 2 pls. 1907.1

—— Over invloed der vinnen op den vorm van het rompmyotoom. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1907, **15**, 874–878. pl. 1907.2

Trigt, *H. von.* Das Elektrogramm des kaudalen Aalherzens. Zeitschr. Biol., 1913, **62**, 217–242. 41 figs. 1913.1

Trimen, *Roland* [1840 —] On the occurrence of a rare fish (*Lophotes cepedianus*) at the cape of Good Hope. Proc. Zool. Soc. London, 1891, 483–484. 1891.1

—— The South African vertebrate fauna (In Noble, J. Illustrated official handbook of the Cape and South Africa, p. 88–90. London, 1893. 8°) 1893.1

Trimmer, (*Mrs.*) *Mary.* A natural history of the most remarkable quadrupeds, birds, fishes and insects. Chiswick, 1830. 16°. 1830.1

Fishes, p. 105–190.

Trinchese, *Salvatore* [1836–1897] Intorno alla struttura reticolare dei corpuscoli del sangue della torpedine e del della midolla dei nervi della Rana. Rendic. Accad. Sci. Istit. Bologna, 1877–78. 1878.1

—— Ricerche sulla formazione delle piastre motrici. Mem. Accad. Sci. Ist. Bologna, 1892, **29**, 279–286. 1892.1

Trinci, *Giulio.* Le radici ed i gangli dei nervi spinali dei teleostei nelle loro varie disposizioni. Ricerche anatomo-comparative. Monit. Zool. Ital., 1905, **16**, 330–353; 386–398. 11 figs. 1905.1

—— La composizione dei nervi spinali degli anfibi raffrontata a quella dei pesci. Monit. Zool. Ital., 1906, **18**, 167–169. 1906.1

Trinks, *Zdenko.* Teichwirtschaft und Fischzucht. Mit besonderer Berücksichtigung der Teichwirtschaft und Fischzuchtanstalt in Kotzman sowie der fischzüchterischen Verhältnisse in der Bukowina. Czernowitz, 1908. xi, 80 p. 7 pls. & maps. 8°. 1908.1

Triplett, *Norman.* The educability of the perch. Amer. Journ. Psychol., 1901, **12**, 354–360. 1901.1

Tristram, *Henry Baker* [1822–1906] Notes on the reptiles and fishes of the Sahara. Proc. Zool. Soc. London, 1859, 475–477. 1859.1

—— Notice of the recent capture of *Gymnetrus banksii*, the great ribbonfish, off the coast of Durham. Proc. Zool. Soc. London, 1866, 147. 1866.1

—— Bergylt [*Sebastes norvegicus*] near Hartlepool. Zoologist, 1867, 2. ser. **2**, 638. 1867.1

—— The natural history of the Bible; being a review of the physical geography, geology and meteorology of the Holy Land; with a description of every animal and plant mentioned in Holy Scripture. London, 1867. 12°. 1867.2

6. edition, London, 1880. viii, 520 p. illust. 12°.

—— The survey of western Palestine. London, 1884. illust. 8°. 1884.1

Freshwater fishes, p. 162–177.

Tristram, *Henry Baker*, **Ainsworth,** *W. F.*, & **Kingsley,** —— *See* **Ainsworth, Tristram** & **Kingsley.**

Trog, *Ernst.* *Barbus semifasciolatus* Günther. Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 1–4. 3 figs. 1913.1

Trois, *Enrico Filippo.* Sull' intima struttura delle villosità uterine dell' *Acanthias vulgaris* sotto il punto di vista zootomico-fisiologico. Atti Istit. Sci. Venezia, 1866–67, **12**, 171–176. 1867.1

—— Nota sulla comparsa di un *Luvarus imperialis* nell' Adriatico, e cenni sulla struttura di alcuni suoi visceri. Comment. Fauna, Flora & Gea, 1867, no. 2. — Atti Ateneo Venezia, 1867, **4**, 15–18. 1867.2

Trois, *E. F.*

—— Sull' esistenza di un sistema linfatico superficiale in alcune specie di pesci ossei. Comment. Fauna, Flora & Gea, 1867, **1**, 254–256. 1867.3

—— Prospetto sistematico dei pesci dell' Adriatico e cataloga della collezione ittiologica del R. Istituto Veneto. Atti Istit. Sci. Venezia, 1874–75, 5. ser. **1**, 569–614. 1875.1

—— Annotazione sopra un esemplare di *Trygon violacea* preso nell' Adriatico. Atti Istit. Sci. Venezia, 1875–76, 5. ser. **2**, 1–3. 1876.1

—— Rapporto sugli aumenti [pesci] delle collezioni zoologiche e zootomiche del R. Istituto Veneto, ed osservazioni critiche sul sistema linfatico della *Chelonia carretta*. Atti Istit. Sci. Venezia, 1875–76, 5. ser. **2**, 759–765. 1876.2

—— Ricerche zootomiche e istologiche sul *Luvarus imperialis*. Mem. Istit. Sci. Venezia, 1876, **20**, 423–443. pl. 1876.3

—— Sopra la esistenza di veri gangli linfatici nel Lofio pescatore e nel Lofio marino. Mem. Istit. Sci. Venezia, 1876, **20**, 221–226. 1876.4

—— Sui nuovi aumenti [pesci] delle raccolte scientifiche del R. Istituto veneto. Atti Istit. Sci. Venezia, 1875–76, 5. ser. **2**, 97–100; 223–231; 295–300. 1876.5

—— Sulla struttura delle villosità uterine del *Myliobatis noctula* e della *Centrina salviani*. Atti Istit. Sci. Venezia, 1875–76, 5. ser. **2**, 429–433. 1876.6

—— Notizie sopra l' *Echinorhinus spinosus* osservato per la prima volta nell' Adriatico. Atti R. Istit. Sci. Venezia, 1876–77, 5. ser. **3**, 1179–1183. 1877.1

—— Contribuzione allo studio del sistema linfatico dei teleostei. Ricerche sul sistema linfatico del *Lophius piscatorius*, dell' *Uranoscopus scaber*, dei pleuronettidi e dei gadoidei. Atti Istit. Sci. Venezia, 1877–78, 5. ser. **4**, 765–782. *Ibid.*, **6**, 19–36; 401–418. pl. *Ibid.*, **7**, 139–150; 333–340. *Ibid.*, **8**, 955–959. 1878.1

—— Nuovi fatti risguardanti la storia del sistema linfatico dei teleostei. Sommario. Atti Istit. Sci. Venezia, 1877–78, **4**, 579–608. 1878.2

Sulla *Platessa vulgaris* [= *Pleuronectes platessa*] nuova alle spiaggie italiane, per la prima volta scoperta nell' Adriatico. Atti Istit. Sci. Venezia, 1877–78, 5. ser. **4**, 321–326. 1878.3

—— Catalogo delle dimostrazioni anatomiche comparative sull' angiologia dei vertebrati inferiori, e specialmente sul sistema linfatico dei pesci, eseguito per la esposizione mondiale di Parigi nel 1878. Venezia, 1878. 1878.4

—— Sopra la singolare disposizione della carotide esterna nella *Oxyrhina spallanzanii*. Atti Istit. Sci. Venezia, 1878–79, 5. ser. **5**, 257–262. 1879.1

—— Annotazione sopra gli avanzi di un *Tetrapturus belone* preso nell' Adriatico. Atti Istit. Sci. Venezia, 1879–80, **6**, 643–645. 1880.1

—— Annotazioni sopra un organo speciale e non descritto nil *Lophius piscatorius*. Atti Istit. Sci. Venezia, 1879–80, 5. ser. **6**, 91–99. 1880.2

—— Catalogo delle dimostrazioni anatomiche del Museo del R. Instituto Veneto di Scienze, Lettere ed Arti . . . preparate edinviate alla Esposizione Internazionale . . . in Berlino nel 1880. Venezia, 1880. 23 p. 8°. 1880.3

—— Richerche sul sistema linfatico dell' *Uranoscopus scaber*. Atti Istit. Sci. Venezia, 1879–80, 5. ser. **6**, 19–36. pl. 1880.4

—— Sopra una particolarità anatomica per la prima volta osservata nell' *Alopecias vulpes*. Atti Istit. Sci. Venezia, 1881–82, 5. ser. **8**, 1361–1364. 1882.1

—— Osservazioni sull' intima struttura delle branchie del *Xiphias gladius*. Atti Istit. Sci. Venezia, 1882–83, 6. ser. **1**, 773–785. 1883.1

—— Ricerche sperimentali sugli spermatozoi dei plagiostomi. Atti Istit. Sci. Venezia, 1882–83, 6. ser. **1**, 545–549. — Journ. Micrographie, **7**, 193–196. 1883.2

—— Sulla comparsa della *Sciæna aquila* nell' Adriatico. Atti Istit. Sci. Venezia, 1882–83, 6. ser. **1**, 75–81. 1883.3

—— Ricerche sulla struttura della *Ranzania truncata*. Atti Istit. Sci. Venezia, 1884, 6. ser. **2**, 1543–1559. pl. 1884.1

—— Sulla comparsa accidentale dell' *Echeneis naucrates* nel golfo di Venezia. Atti Istit. Sci. Venezia, 1893, 7. ser. **4**, 1636. 1893.1

—— Sopra un esemplare di *Acipenser stellatus* proveniente dall' Adriatico. Atti Istit. Sci. Venezia, 1896, 7. ser. **7**, 1175–1177. — Boll. Natur. Siena, **17**, 25–26. 1896.1

—— Annotazione sopra un' esemplare di *Trygon violacea* preso nell' Adriatico. Venezia, 1900. 1900.1

—— Sullo *Schedophilus botteri* dell' Heckel. Atti Istit. Sci. Venezia, 1900, 7. ser. **9**, 65. 1900.2

—— Nota sopra un' esemplare di *Epinephelus alexandrinus* preso nell' Adriatico. Atti Istit. Sci. Venezia, 1904, 8. ser. **3**, pt. 2, 93–95. 1904.1

—— La femmina del *Coris julis* secondo nuove ricerche. Atti Istit. Sci. Venezia, 1905, 8. ser. **4**, pt. 2, 197–198. 1905.1

—— Nota sopra un caso di metacromatismo nell' Anguilla. Atti Istit. Sci. Venezia, 1905, 8. ser. **4**, 147. 1905.2

—— Nota sopra un esemplare di *Scymnus lichia* preso nel l' Adriatico. Atti Istit. Sci. Venezia, 1906, 8. ser. **5**, 65–68. 1906.1

—— Nota sopra una forma di metacromatismo osservata in un esemplare di *Pleuronectes italicus* Günther preso nella laguna di Venezia. Atti Istit. Sci. Venezia, 1908, 8. ser. **7**, pt. 1, 221–222. 1908.1

—— Ricerche sui Trachini che frequentano la spiaggia del Lido di Venezia e specialmente sul *Trachinus vipera*. Atti Istit. Sci. Venezia, 1908, 8. ser. **7**, pt. 1, 96–97. *Ibid.*, pt. 2, 1349–1357. 1908.2

—— Sopra un esemplare di anguilla con spiccato metacromatismo, regalata alle collezioni dell' Istituto dal Sign. Avv. G. B. Voltolina. Atti Istit. Sci. Venezia, 1908, 8. ser. **7**, pt. 1, 65–66. 1908.3

—— Appunti sopra un esemplare di *Luvarus imperialis* Raf. comparso sul nostro mercato il giorno 8 settembre 1908. Atti Istit. Sci. Venezia, 1909, 8. ser. **8**, pt. 2, 609–611. 1909.1

—— Contributo alla conoscenza di forme di metacromatismo osservate in pesci raccolti nella laguna di Venezia. Atti Istit. Sci. Venezia, 1909, 8. ser. **8**, pt. 2, 113–115. 1909.2

—— Sopra l'anormale colorazione della pelle osservata in un esemplare mutilato di *Lophius piscatorius* proveniente dalle pescherie di Arcachon. Atti Istit. Sci. Venezia, 1909, 8. ser. **8**, pt. 2, 43–45. 1909.3

—— Sopra un interessante esemplare di salmonide pescato in prossimità della spiaggia del Lido di Venezia. Atti Istit. Sci. Venezia, 1909, 8. ser. **8**, pt. 2, 27–31. 1909.4

Trois, *Enrico Filippo,* & **Perugia,** *Alberto.* Sui linfatici del cuore del *Mola aspera.* Atti Istit. Sci. Venezia, 1866–67, 3. ser. **12**, 5–7. pl. 1867.1

Trojan, *Emanuel.* Hautsinnesorgane bei *Malthopsis spinulosa.* Sitzber. Deutsch. Nat.-Med. Ver. Böhm. Lotos, 1904, **52**, 98–103. 3 figs. 1904.1

—— The structure of the bud-like organs of *Malthopsis spinulosa* Garman [Appendix to Lendenfeld, Robert von. The radiating organs of the deep-sea fishes] Mem. Mus. Comp. Zool. Harv. Coll., 1905, **31**, no. 2, 209–212. 3 figs. 1905.1

—— Ein Beitrag zur Morphologie des Tiefseefischgehirnes (In Reports on an exploration off the west coasts of Mexico, etc.) Mem. Mus. Comp. Zool. Harv. Coll., 1906, **30**, 219–255. 6 pls. 1906.1

——Neuere Arbeiten über die Leuchtorgane der Fische. Zusammenfassende Uebersicht. Zool. Centralbl., 1906, **13**, 273–284. 1906.2

—— Das Leuchten und der Farbensinn der Fische. Naturw. Wochenschr., 1914, n. s. **13**, 785–787. 1914.1

Literaturverzeichnis, p. 787.

—— Die Leuchtorgane von *Cyclothone signata* Garman. Sitzber. Akad. Wiss. Wien, 1915, **124**, 1. Abth., 291–316. pl. & figs. 1915.1

Kugelige geschlossene Hautdrüsen. "Reflektor" in Wirklichkeit der Rest einer Ringmuskulatur und eine Art fazettierte Cornea. Rückbildung.

Trolle, *C.* The Iceland fisheries. Rept. U. S. Fish Comm. 1880 (1883), **8**, 77–87. 1883.1

—— The Iceland cod-fisheries in 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 371–382. 1885.1

—— Salting fish in Jutland. Rept. U. S. Fish Comm. 1884 (1886), **12**, 411–419. pl. 1886.1

Troncet, *L. J.*, & **Clement,** *A. L.* *See* **Clement** & **Troncet.**

Tronson, *J. M.* Personal narrative of a voyage to Japan, Kamtschatka,

Tronson, *J. M.*
Siberia, Tartary and various parts of the coast of China in H. M. S. "Barracouta." London, 1859. xiii, 414 p. illust. 8°. 1859.1

Troschel, *Franz Hermann* [1810–1882] Bericht über die Leistungen im Gebiete der Zoologie während des Jahres 1838. Mollusca und Pisces. Arch. Naturgesch., 1839, 5. Jahrg., 201–240; 378–389. 1839.1

—— Ueber einige Bloch'sche Fisch-Arten. Arch. Naturgesch., 1840, 6. Jahrg., 267–281. 1840.1

—— Bericht über die Leistungen im Gebiete der Ichthyologie während der Jahre 1839 bis 1861. Arch. Naturgesch., 1840–62, 6.–28. Jahrgänge. 1840.2

For detailed references to these bibliographical notices, see Taschenberg, O. Bibliotheca Zoologica, 1894, **4**, 3227.

—— Reports on the progress of zoology and botany, 1841, 1842. Edinburgh, 1845. 8°. (Ray Society Pub.) 1845.1

Report on the contributions to the natural history of the Reptilia — Fishes — Mollusca.

—— Reports on zoology for 1843, 1844. Translated from the German by G. Busk . . . A. Tulk . . . A. H. Haliday. London, 1847. viii, 596 p. 8°. (Ray Society Pub.) 1847.1

—— Ueber die Begrenzung der Familie der Sparoiden. Arch. Naturgesch., 1849, 15. Jahrg., 382–386. pl. 1849.1

—— Ueber die Bewaffnung der Kiemenbogen der Fische. Arch. Naturgesch., 1849, 15. Jahrg., 376–381. 1849.2

—— Ueber die Rümpchen. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1851, 563. 1851.1

—— Ueber neue fossile Fische von Winterburg. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1851, 518–542. 1851.2

—— *Alausa vulgaris* und *A. finta*, verschiedene Arten. Arch. Naturgesch., 1852, 18. Jahrg., **1**, 228–233. 1852.1

—— Ueber die fossilen Fische aus der Braunkohle des Siebengebirges. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1854, 1–28. 1854.1

—— Ueber die systematische Stellung der Gattung Embiotoca. Arch. Naturgesch., 1854, 20. Jahrg., **1**, 163–168. 1854.2

—— Beobachtungen über die Fische in den Eisennieren des Saarbrücker Steinkohlengebirges. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1857, 1–19. 1857.1

—— Leptopterygius, neue Gattung der Discoboli. Arch. Naturgesch., 1860, 26. Jahrg., **1**, 205–209. pl. 1860.1

—— Ueber *Brama raii* und *Brama longipinnis*. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1863, 20. Jahrg., 51–52. 1863.1

—— Ueber das Gebiss der Fischgattung Mugil. Sitzber. Ver. Preuss. Rheinl. Westphal., 1865, 22. Jahrg., 130. 1865.1

—— Ein Beitrag zur ichthyologischen Fauna der Inseln des Grünen Vorgebirges. Arch. Naturgesch., 1866, 32. Jahrg., 190–239. 1866.1

—— Ueber eine Sammlung von Fischen von den Capverdischen Inseln. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1866, 23. Jahrg., 39–40. 1866.2

—— Ueber die Aufschlüsse, welche die geographische Verbreitung der Thiere, namentlich der Seefische und der Landschnecken zu geben vermag. Correspbl. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1869, 113–117. 1869.1

—— Ueber den Sexual-Unterschied bei *Neosilurus brevidorsalis*. Arch. Naturgesch., 1870, 36. Jahrg., **1**, 276–280. 1870.1

—— Ueber das Männchen von *Cobitis tænia*. Zeitschr. Gesamt. Naturw., 1871, **38**, 363. 1871.1

—— Ueber den in Queensland entdeckten Ceratodus. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1871, 28. Jahrg., 90. 1871.2

—— Ueber einen Fisch aus der Welsfamilie von Australien (*Copidoglanis brevidorsalis* Günth. = *Neosilurus brevidorsalis* Steind.) Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1871, 28. Jahrg., 28–29. 1871.3

—— Ueber den Fang der sogenannten Rümpchen in den rheinischen Gebirgsbächen. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1872, 29. Jahrg., 208–210. 1872.1

—— Ueber Selachier-Eier aus Japan. Verh. Naturh. Preuss. Rheinl. Westphal., 1874, 31. Jahrg., 85. 1874.1

—— Uebersicht über die allmählich veränderten Aussichten der Naturforscher über die Fortpflanzung der Aale. Verh. Naturh. Ver. Preuss. Rheinl. Westphal., 1875, 32. Jahrg., 81–82. 1875.1

Troschel, *Franz Herrmann,* & **Müller,** *Johannes. See* **Müller** & **Troschel.**

Trost, *J.* Ueber Fortpflanzung des Aals. Zool. Garten, 1865, 6. Jahrg., 31. 1865.1

Trotti, *Ludovico.* Descrizione d' un nuovo rettili fossile, della famiglia dei Paleosauri, e di due pesci fossili, trovati nel calcareo nero, sopra Varenna sul Lago di Como, dal . . . Sig. Trotti, etc. Estratto dal Politecnico di Milano, 1839. 11 p. illust. 8°. 1839.1

Con alcune riflessioni geologiche del Prof. G. Balsamo-Crivelli.

Trotz, *Theodor F.* Dissertatio juris publicæ Belgicæ inauguralis de jure piscandi. Trajecti ad Rhenum, 1771. 8°. 1771.1

Trouessart, *Edouard Louis* [1842 —] Géographie zoologique. Paris, 1890. xi, 338 p. illust. 8°. 1890.1

Trout, *L. E.,* & **Myers,** *George H.* Bibliography of Oklahoma geology with subject index. Bull. Oklahoma Geol. Surv., 1915, no. 25, 1–105. 1915.1

True, *Frederick William* [1858–1914] A list of the vertebrate animals of South Carolina [fishes] South Carolina Resources & Publications, State Board of Agriculture, Charleston, 1883, 243–262. 1883.1

—— The fisheries of the Great Lakes (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 631–673. Washington, 1887) 1887.1

—— The pound-net fisheries of the Atlantic states (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 595–610. 3 pls. Washington, 1887) 1887.2

True, *Frederick William,* **Goode,** *George Brown,* & **Elliott,** *Henry Wood. See* **Goode, Elliott** & **True.**

True, *Frederick William,* & **Kumlien,** *Thure Ludwig Theodor. See* **Kumlien** & **True.**

True, *Frederick William,* & **Wilcox,** *W. A.* The river fisheries of Massachusetts and New Hampshire (In The fisheries and fishery industries of the United States, edited by George Brown Goode, sect. 5, **1**, 667–673. Washington, 1887) 1887.1

True, *Rodney H.* Toxicity and malnutrition. Science, 1915, n. s. **42**, 195–196. 1915.1

Toxicity defined as productive of function derangement due to chemical reaction. Toxicity of distilled water. Resistance of Fundulus eggs.

Truman, *E. B.* Observations on the development of the ovum of the pike. Monthly Micr. Journ., 1869, **2**, 185–203. figs. 1869.1

Trumbull, *J. Hammond.* On some early notices of New England fishes. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 165–169. 1873.1

Included in an article by S. F. Baird, entitled "Notices in regard to the abundance of fish on the New England coast in former times." Some of the accounts referred to by Trumbull are quoted in full by Baird, and a discussion of Indian names and folk etymologies is given.

Trumbull, *J. Hammond,* & **Gent,** *J. J.* [The reference to these names in vol. i of the present work should be deleted. "**Gent,** *J. J.*," p. 448, is an abbreviation for John Josselyn, gentleman, author of "New England's rarities," 1672]

Trybom, *Filip.* Carp-culture in Sweden. Bull. U. S. Fish Comm. 1886 (1887), **6**, 156–160. 1887.1

—— Salmon fisheries of Halland, Sweden, especially in the river Viskan. Bull. U. S. Fish Comm. 1886 (1887), **6**, 104–105. 1887.2

—— The tench recommended for cultivation in Sweden. Bull. U. S. Fish Comm. 1886 (1887), **6**, 209–210. 1887.3

—— Om odling af ål. Fiskeritidskr. Finl., 1893, **2**, 175–177. 1893.1

—— Berättelse om en för fiskeristudier till Tyskland och Österrike sommaren 1896 företagen resa. Fiskeritidskr. Finl., 1897, **6**, 115–130. 1897.1

—— Iakttagelser öfver braxenrommens utveckling i det fria. Fiskeritidskr. Finl., 1898, **7**, 187–191. 1898.1

—— Alen som skadedjur. Fiskeritidskr. Finl., 1899, **8**, 213–214. 1899.1

—— Report on the fisheries in Halland, W. Sweden, for 1900; containing observations on the development of the organs of sex of the herring [Text in Swedish] Hush.-Sällsk. Handl., Hallands, 1901, 99–125. 1901.1

—— The great crested grebe's (*Colymbus cristatus*) manner of living and

Trybom, *F.* its effect on the supply of fish [Text in Swedish] Landtmann. Tidskr. Sverig. Jord. Binär., Linköping, 1902, **13**, 235–239; 248–250. 1902.1

—— Lebensweise des *Podiceps cristatus* und sein Einfluss auf die Fischmenge [Text in Swedish] Fiskeritidskr. Finl., 1902, **11**, 35–42. 1902.2

—— Male specimens of the common eel from the east coast of Sweden [Text in Swedish] Svensk Fisk. Tidskr., 1902, **11**, 9–13. 1902.3

—— Fishery in Halland during 1902 [Text in Swedish] Halland. Hushålln.-Sällsk. Handl., Halmstad, 1903, 127–151. 1903.1

—— Investigations into the lakes of the district of Bohus during the summer of 1900 [Text in Swedish] Göteborgs o. Bohusläns Hushålln.-Sällsk., Qvartalsskr., Göteborg, 1903, 97–143. 1903.2

—— Trawl fishery trials in the Baltic and notes on the spawning of plaice (*Pleuronectes platessa* L.) [Text in Swedish] Svensk Fisk. Tidskr., 1903, **12**, 49–58. 1903.3

—— What branches of fish cultivation are of most importance for our country and how should they be most suitably encouraged by the state? [Text in Swedish] Kongl. Landtbr.-Akad. Handl. Tidskr., Stockholm, 1903, **42**, 283–301. 1903.4

—— Ueber die Lachsarten und deren Wanderungen. Stenogr. Protok. Verh. Intern. Fisch.-Kongr. Wien, 1905, 160–165. 1905.1

—— Markierungen von Lachsen und Meerforellen im Ostseegebiete. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1908, **9**, 29–50. 1908.1

—— Bericht über die Aufzucht, die Markierung und den Fang von Lachsen und Meerforellen im Ostseegebiete während der Jahre 1904 bis 1908. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1910, **12** *C*, no. 6, 1–47. 8 figs. 1910.1

Trybom, *Filip,* **Grimm,** *O. von,* & **Henking,** *H.* *See* **Grimm, Henking & Trybom.**

Trybom, *Filip,* & **Nordqvist,** *Oscar Frithiof.* *See* **Nordqvist & Trybom.**

Trybom, *Filip,* **Pettersson,** *D.,* & **Ekman,** *G.* *See* **Ekman, Pettersson & Trybom.**

Trybom, *Filip,* & **Schneider,** *Guido.* Die im Jahre 1906 in Schweden ausgeführten Versuche mit gekennzeichneten Aalen. Svenska Hydrogr.-Biol. Kommiss. Skrifter, 1908, **3**, 1–3. map. 1908.1

—— Die Markierungsversuche mit Aalen und die Wanderungen gekennzeichneter Aale in der Ostsee. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1908, **9**, 51–59. 1908.2

—— Das Vorkommen von "Montées" und die Grösse der kleinsten Aale in der Ostsee und in deren Flüssen. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1908, **9**, 60–65. 1908.3

Tryon, *G. W.,* & **Binney,** *W. G.* *See* **Binney & Tryon.**

Tschermak, *Armin von.* Studien über das Binocularsehen der Wirbelthiere. Einleitende Mittheilung. Arch. Physiol. (Pflüger), 1902, **91**, 1–20. 6 figs. 1902.1

—— Physiologische Untersuchungen am embryonalen Fischherzen. Sitzber. Akad. Wiss. Wien, 1909, **118**, 17–115. 2 pls. & 25 figs. 1909.1

—— Wie die Tiere sehen, verglichen mit dem Menschen. Schrift. Ver. Verbr. Nat. Kenntn., Wien, 1914, **54**, 335–418. 37 figs. 1914.1

Contains some observations on fishes.

—— Das Sehen der Fische. Naturwissenschaften, 1915, 3. Jahrg., 177–181. 1915.1

Im letzten Dezennium gewonnene Resultate. Bedingungen des Sehens im Wasser. Licht- und Farbensinn. Periskopie. Akkommodation. Gesichtsraum. 2-äugiges Sehen. Haltung und Beweglichkeit der Augen.

Tschermak, *Armin von,* & **Bernstein,** *J.* *See* **Bernstein & Tschermak.**

Tschermak, *Armin von,* & **Hoefer,** *P.* Ueber binoculare Tiefenwahrnehmung auf Grund von Doppelbildern. Arch. Physiol. (Pflüger), 1903, **118**, 299–321. fig. 1903.1

Tscherning, *F. A.* Ueber Fischwasser im Schönbuch in älterer Zeit. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1899, 55. Jahrg., 432–437. 1899.1

Tschernoff, *N. D.* Ueber den Bau des Gehörorganes von Exocœtus. Anat. Anz., 1909, **34**, 91–94. 3 figs. 1909.1

Tschernorutzky, *Helene.* Ueber das Vorkommen von Nucleinsäure in reifen Heringseiern. Zeitschr. Physiol. Chem., 1912, **80**, 194–197. 1912.1

Tscheuke, *Walther.* Gefleckte und graue Gambusen. Natur u. Haus, 1904, 12. Jahrg., 185–186. 1904.1

Tschichatcheff, *Pierre de. See* **Tchihatcheff,** *Pierre de.*

Tschudi, *Friedrich von* [1820–1886] Das Thierleben der Alpenwelt. Naturansichten und Thierzeichnungen aus dem schweizerischen Gebirge, etc. 9. Auflage. Leipzig, 1872. xv, 593 p. illust. 8°. 1872.1

The first edition appeared in 1853.

Tschudi, (*Baron*) *Johann Jacob von* [1818–1889] Untersuchungen über die Fauna Peruana. St. Gallen, 1844–46. 693 p. 6 pls. 4°. 1844.1

Ichthyologie, p. 1–35. 6 pls.
"From reviews in Isis it appears that this work was issued in 12 parts as follows: Lief. 1 & 2, 1844, Therology, p. 1–76. 12 pls. Lief. 3–5, 1845, Therology, p. 77–244. 5 pls. Ornithology, 12 pls. Lief. 6–12, 1846, Therology, p. 245–262; Ornithology, 5 pls. & text, with the whole of Herpetology, Ichthyology."— C. D. Sherborn, Index animalium.

Tuchoff, *V. N.* Le long de la côte occidentale de Kamtschatka [Text in Russian] Zap. Russ. Geogr. Obsc., St. Petersb., 1906, **37**, pt. 2, 1–521. map. 1906.1

Tucker, *Henry.* Scale variation in *Stilosoma extenuatum.* Proc. Acad. Nat. Sci. Philad., 1911, **63**, 549–550. 2 figs. 1911.1

Tucker, *John R.* Fishing in the navigable waters of the United States. Bull. U. S. Fish Comm. 1886 (1887), **6**, 117–119. 1887.1

Tuckey, *James Kingston* [1776–1816] Narrative of an expedition to explore the river Zaire, usually called the Congo, in south Africa, in 1816. London, 1818. 8°. 1818.1

Türler, *H.* Uebersicht über die ältern Fischerordnungen des Thunersees. Thun, 1895. 16 p. 8°. 1895.1

Tugwell, *George* [*c.* 1825 —] The North Devon handbook; being a guide to the topography . . . and an introduction to the natural history of the district. London & Ilfracombe, 1857. 12°. 1857.1

2. edition. Ilfracombe [186–] x, 299 p. illust. 8°. Part iii contains: —
1. Geological memoir.
3. Animal kingdom.

Tulian, *E. A.* Acclimatization of American fishes in Argentina. Bull. U. S. Fish Comm. 1908 (1910), **28**, pt. 2, 955–965. 1910.1

Tullberg, *Tycho Fredrik Hugo* [1842 —] Das Labyrinth, ein Organ zur Empfindung der Wasserbewegungen. Bihang Svensk. Vet. Akad. Handl., Stockholm, 1903, **28**, no. 15, 1–25. 1903.1

Tulloch, *J. S.* Sturgeon in the Shetland seas. Ann. Scottish Nat. Hist., 1905, 120. 1905.1

Tung, *Albin.* Fischweid und Susswasserleben im Wechsel der Monate; Sportlich-biologisches Handbuch für alle Fischweidwerker. Berlin, 1911. 122 p. 12 figs. 8°. 1911.1

Tuomey, *M.* [Descriptions and figures of *Ctenacanthus elegans, Cladodus newmani, C. magnificus*] (In Second Biennial Report Geol. Alabama, by M. Tuomey, edited by J. W. Mallet, p. 38–40. Montgomery, 1858. xix, 292 p.) 1858.1

Appended are lists of Cretaceous and Tertiary fossils, including a number of sharks, p. 261–268.

Tupper, *C. L.* On salmon hatching. 1. Rept. Harrow School Sci. Soc., 1866, 33–36. 1866.1

Tur, *Jan. Comephorus dybowskii* Wszechświat, Tygodn. Poświec. Nauk. Przyrodn., Warszawa, 1903, **22**, 711–712. 1903.1

—— Otchet' o zaghranichmoi poyezdkye v' 1902 ghodu. Trudui Obshch. Varshav. Univ., 1905, 1–40. 1905.1

—— Sur l'influence des rayons du radium sur le développement de la roussette (*Scyllium canicula*) Arch. Zool. Expér. Gén. 1906, 4. sér. **5**, xxxix–xlviii. 6 figs. 1906.1

—— Expériences sur l'influence des rayons du radium sur le développement embryonnaire de *Scyllium canicula* Cuv. Kosmos, Lwów Roczn., 1907, **32**, 145–159. 6 figs. 1907.1

—— Sur le développement des œufs de Scyllium (*S. canicula* Cuv.) exposés à l'action du radium. C. R. Assoc. Anat. Paris, 1911, **13**, 26–31. 1911.1

—— Sur le développement parablastique des très jeunes embryons de *Scyllium canicula* Cuv. soumis à l'action du radium [Text in Russian] Kosmos, Lwów Roczn., 1913, **38**, 1114–1134. 2 pls. 1913.1

Turgot, *Etienne François Marquess de Cousmont* [1721–1789] Mémoire instructif sur la manière de rassembler, de

Turgot, *E. F.*
préparer, de conserver et d'envoyer les diverses curiosités d'histoire naturelle. Paris, 1758. xvi, 235 p. 25 pls. 8°. 1758.1

Turnbull, *David.* Travels in the west. Cuba, with notices of Porto Rico, and the slave trade. London, 1840. xvi, 574 p. map. 8°. 1840.1

Turner, *Henry Ward* [1857 —] The Esmeralda formation, a freshwater lake deposit. With a description of the fossil plants by F. H. Knowlton and of a fossil fish by F. A. Lucas. 21. Ann. Rept. U. S. Geol. Surv., 1900, pt. 2, 191–224. 8 pls. 1900.1

Leuciscus turneri Lucas.

Turner, *Lucien M.* Contributions to the natural history of Alaska; results of investigations made chiefly in the Yukon district and the Aleutian islands, conducted under the auspices of the signal service, May 1874–Aug. 1881. Washington, 1886. 26 pls. 4°. 1886.1

Turner, (*Sir*) *William* [1832 —] On the structure and composition of the integument of the *Orthagoriscus mola.* Nat. Hist. Rev., 1862, 185–188. figs. 1862.1

—— On a remarkable mode of gestation in an undescribed species of Arius [*A. boakeii*] Journ. Anat. Physiol., 1867, **1**, 78–82. — Rept. Brit. Assoc. Adv. Sci., 36. meet., 1867, 79. 1867.1

—— On a variation in the origin of the long buccal nerve as elucidating its physiology. Journ. Anat. Physiol., 1867, **1**, 83–84. 1867.2

—— A contribution to the visceral anatomy of the Greenland shark (*Læmargus borealis*) Journ. Anat. Physiol., 1873, **7**, 233–250. — Proc. Roy. Soc. Edinburgh, 1874, **8**, 81–84. 1873.1

—— Additional observations on the anatomy of the Greenland shark (*Læmargus borealis*) Journ. Anat. Physiol., 1874, **8**, 285–290. figs. 1874.1

—— Observations on the spiny shark (*Echinorhinus spinosus*) Journ. Anat. Physiol., 1875, **9**, 293–301. figs. 1875.1

—— On the presence of spiracles in the porbeagle shark (*Lamna cornubica*) Journ. Anat. Physiol., 1875, **9**, 301–302. 1875.2

—— Note on the oviducts of the Greenland shark (*Læmargus borealis*) Journ. Anat. Physiol., 1878, **12**, 604–607. figs. 1878.1

—— On the pori abdominales in some sharks. Journ. Anat. Physiol., 1879, **14**, 101–102. 1879.1

—— The structure of the comb-like branchial appendages and the teeth of the basking shark (*Selache maxima*) Journ. Anat. Physiol., 1879, **14**, 273–286. pl. — Proc. Roy. Soc. Edinburgh, 1880, **10**, 457–458. 1879.2

—— Additional note on the oviducts of the Greenland shark (*Læmargus borealis*) Journ. Anat. Physiol., 1885, **19**, 221–222. 1885.1

—— Note on the angler–fish. Field Natural. Quart., 1902, **1**, 185–186. 1902.1

Turner, *William E.* Presence of shad in the rivers tributary to the gulf of Mexico. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 394. 1874.1

Turner, *William M.* Salmon hatching on McCloud river. Overland Monthly, 1875, **14**, 79–85. 1875.1

Turner-Turner, *J.* The giant fish of Florida. London, 1902. 206 p. pls. 8°. 1902.1

Turrel, *L.* La pisciculture; son rôle dans les eaux douces, ses prétentions dans les eaux salées. Bull. Soc. Acclim. Paris, 1872, 2. sér. **9**, 465–485. 1872.1

—— La question des madragues. Bull. Soc. Acclim. Paris, 1872, 2. sér. **9**, 564–577. 1872.2

—— La trêve des filets trainants. Bull. Soc. Acclim. Paris, 1875, 3. sér. **2**, 453–457. 1875 1

—— Les madragues du Var en 1876. Bull. Soc. Acclim. Paris, 1877, 3. sér. **4**, 188–193. 1877.1

—— La pisciculture et les parcs à coquillage de la rade de Toulon. Bull. Soc. Acclim. Paris, 1878, 3. sér. **5**, 281–289. 1878.1

Turrell, *W. J.* Ancient angling authors. London, 1910. 239 p. illust. facsimile pls. 8°. 1910.1

Turton, *William* [1762–1835] A general system of nature . . . translated from Gmelin's last edition of the Systema Naturæ . . . Amended and enlarged by W. Turton. 4 vols. 1802. 8°. 1802.1

Another edition, with a life of Linné, etc. 7 vols. 1806. 8°.

—— The British fauna, containing a compendium of the zoology of the British islands; arranged according to the Linnean system. Swansea & London, 1807. vii, 230 p. 12°. 1807.1

Contains a list of British fishes.

Tuttolomondo, *Angelo.* Fauna ittiologica del compartimento marittimo di Catania. Girgenti, 1901. 164 p. 8°. 1901.1

Twenhofel, *W. H.*, & **Dunbar,** *Carl O.* Nodules with fishes from the Coal Measures of Kansas. Amer. Journ. Sci., 1914, **38**, 157–163. 1914.1

Brain-casts of Rhadinichthys from near Lawrence, Kansas. These were described in detail by Moodie, R. L., in Journ. Compar. Neurol., 1915, **25**, 135–181. Similar remains are reported from Oklahoma in Bull. Geol. Soc. Amer., 1913, **24**, 119–120. *See also* Eastman, C. R., 1908.1, *supra.*

Twiss, *T.* On the ova and fry of the salmon. Ann. Mag. Nat. Hist., 1844, **14**, 146–147. 1844.1

Tybring, *Oscar.* Giftige fiske. Norsk Fiskeritidende. Bergen, 1885. 1885.1

—— Poisonous fish. Bull. U. S. Fish Comm. 1886 (1887), **6**, 148–151. 1887.1

Tyson, (*Rev.*) *Michael.* A letter to the Rev. M. Lort, B. D. F. R. S., containing an account of a singular fish from the South seas, the "zebra fish." Phil. Trans. Roy. Soc. London, 1771, **61**, 247–249. 1771.1

Tyson, *Philip T.* Introduction of the black bass into the Ohio and the Potomac. Maryland Historical Mag., 1907, **2**, 14–16. 1907.1

Tysowski, *A.* Zur Kenntnis des Gehörorganes und seiner Beziehungen zur Schwimmblase bei den Clupeiden. Bull. Intern. Acad. Sci. Cracovie, 1909, 1. sem., 45–74. pl. & figs. 1909.1

Tytler, *Patrick Fraser* [1791–1849] Historical view of the progress of discovery on the more northern coasts of America, from the earliest period to the present time. By P. F. Tytler . . . With descriptive sketches of the natural history of the North American regions. By J. Wilson . . . To which is added an appendix, containing remarks on a late memoir of S. Cabot, with a vindication of R. Hakluyt, etc. Edinburgh, 1832. 444 p. illust. 8° (Edinburgh Cabinet Library, vol. ix) 1832.1

Tytler, *R. C.* Observations on keeping salt-water fish alive for a considerable time. Journ. Asiat. Soc. Bengal, 1865, **33**, 534–535. 1865.1

U

Ubaghs, *Joh. Casimir* [1829–1894] Description géologique et paléontologique du sol du Limbourg, avec catalogue général des fossiles du terrain Crétacé . . . et description de quelques grands vertébrés de la Craie supérieure de Maastricht. Ruremonde, 1879. 275 p. illust. 8°. 1879.1

Ubaldini, *Giuseppe.* Ricerche chimiche sulle urine di taluni animalia. Atti Accad. Pont. Napoli, 1871, **9**. 1871.1

Ubisch, *Leopold von.* Ueber die Lebensgeschichte des Aales. Nat. Wochenschr., 1911, **26**, 361–362. 1911.1

Udden, *Johan August* [1859 —] A brief description of the section of Devonian rocks exposed in the vicinity of Rock Island, Ill., with a statement of the nature of its fish remains. Journ. Cincinnati Soc. Nat. Hist., 1897, **19**, 93–94. 1897.1

—— Dipterus in the American middle Devonian. Journ. Geol., Chicago, 1899, **7**, 494–495. fig. 1899.1

Dental plates subsequently described as *Dipterus uddeni*, by C. R. Eastman.

Udden, *J. A.*, & **Phillips,** *Drury McN.* A reconnaissance report on the geology of the oil and gas fields of Wichita and Clay counties, Texas. Bull. Univ. Texas, 1912, no. 246 (Scient. ser. no. 23), 1–308. 25 pls., maps, & 7 figs. 1912.1

Contains mention of fossil fishes. *Dicrenodus texanus*, sp. nov., described by C. R. Eastman in Proc. U. S. Nat. Mus., 1917, **52**, 256.

Uexküll, *J. von.* Vergleichend-sinnesphysiologische Untersuchungen. I. Ueber die Nahrungsaufnahme des Katzenhais. Zeitschr. Biol., 1894, **14**, 32. 1894.1

Uhlenhuth, *Eduard.* Zur Untersuchung des Farbensinnes. Biol. Centralbl., 1911, **31**, 767–771. 1911.1

Fische besitzen tatsächlich Farbensinn.

Uhler, *Philip Reese* [1835–1913] For biographical notice, *see* Howard, L. O., in Entomol. News, 1913, **24** 433–439.

Uhler, *Philip Reese,* & **Lugger,** *Otto.* List of fishes of Maryland. Rept. Comm. Fisheries Maryland, 1876, 67–176. 1876.1

Seven species are described.

—— Addition to list of fishes of Maryland. Rept. Comm. Fisheries Maryland, 1877, 57–94. *Ibid.*, 1878, 107–125. 1878.1

Uhles, *E.* Festschrift für E. Uhles. Neudamm, 1911. 1911.1

Ule, *W.* Etwas vom Hecht. Aus der Natur, 1897, 46. Jahrg., 583–584. 1897.1

Ullmann, *K.* Ergänzendes über *Acara cœrulea* var. *latifrons.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 97–99. fig. 1909.1

Ulloa, *Jorge Juan de,* & **Ulloa,** *Antonio de.* Voyage to South America, describing at large the Spanish cities, towns, provinces, etc. on that extensive continent. Translated from the original Spanish, with additions by Mr. John Adams. 3. ed. 2 vols in 1. London, 1772. 1772.1

Ulmer, —— Tod durch den Stich eines *Trachinus draco.* Allgem. Milit.-Aerztl. Zeitg., Wien, 1865, **6**, 329–332. 1865.1

Ulre, *Andrew.* On the analysis of cod-liver oil for iodine. Pharmac. Journ., 1843, **2**. 1843.1

Ulrey, *A.B.* On the fishes of Wabash county. Proc. Indiana Acad. Sci. 1893 (1894), 229–231. 1894.1

—— Preliminary descriptions of some new South American Characinidæ. Amer. Naturalist, 1894, **28**, 610–612. 1894.2

—— The South American Characinidæ collected by Charles Frederic Hartt. Ann. N. Y. Acad. Sci., 1895, **8**, 258–300. 1895.1

Ulrey, *A. B.*, & **Eigenmann,** *Carl H.* *See* **Eigenmann** & **Ulrey.**

Ulrich, —— De apparatu electrico rajarum. Inaug. Dissert. Berolini, 1851. 8°. 1851.1

Ulrich, *Carl Jost.* A contribution to the subterranean fauna of Texas. Trans. Amer. Micr. Soc., 1901, **23**, 83–101. 5 pls. 1901.1

Ulrich, *John L.*, & **Rand,** *H. W.* *See* **Rand** & **Ulrich.**

Underwood, *William Lyman.* Goldfish as destroyers of mosquito larvæ. Science, 1901, n. s. **14**, 1017–1018. 1901.1

Ungaro, *Vincenzo.* Studî sullo sviluppo dei selaci (*Pristiurus melanostomus* Bp.) nota preliminare. Anat. Anz., 1910, **37**, 636–644. 1910.1

Unger, *Emil.* Beschreibung der Königlichen Ungarischen Versuchstation für Fischereibiologie und Abwasserbeseitigung. Intern. Rev. Hydrobiol., Leipzig, 1910, **3**, 262–265. 1910.2

Unger, *F.* Ein Fischrest (Mugil) in den tertiären Ablagerungen von Parschlug. Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1851, **7**, 157–159. 1851.1

Unterberg, *J.* Das Laichgeschäft der *Betta bellica.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 838–840. fig. 1913.1

—— Meine *Cyprinodon dispar.* Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 109–110. 4 figs. 1915.1

—— *Polycentrus schomburgki.* Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 377–378. fig. 1915.2

Urban, *F.* Wissenschaftliche Ergebnisse der Aquarienkunde. Intern. Rev. Ges. Hydrobiol., Leipzig, 1908, **1**, 481–487. 1908.1

—— Mitteilungen über Schulvivarien. Brutpflege und Zucht einheimischer Fische. Monatsh. Nat. Unterr., 1913, **6**, 276–279. 1913.1

Urbina, *Manuel,* **Degoutin,** *N.*, **Villada,** *Manuel M.*, & **Gandara,** *Guillermo.* *See* **Villada, Gandara** & others.

Uribe, *Luis.* La industria de la pesca; importancia de sa propagación en Chile. Valparaiso, 1900, 39 p. 8°. 1900.1

—— La industria de la pesca en Chile. Revist. de Marina, 1899. — Chilean Comm. Buffalo Exposition, 1901, 27–33. 1901.1

Usakov, *B.* Heilung der Fische von der Gyrodactylus-Plage [Text in Russian] Naturfreund, St. Petersb., 1907, **2**, 400–402. 1907.1

Usher, *W. A. E.*, & **Woodward,** *H. B.* *See* **Woodward** & **Usher.**

Usov, *M. M.* Ueber den Bau der sogenannten Augenähnlichen Flecken einiger Knochenfische. Bull. Soc. Nat. Moscou, 1879, **54**, pt. 1, 79–115. 4 pls. 1879.1

—— Die "accessorischen Augen" einiger Knochenfische. Abstract in Naturforscher (Sklarek), 1880, 13. Jahrg., 25–27. 1880.1

—— On the structure of the so-called lobi accessorii of the spinal marrow in some teleostean fishes [Text in Russian] Trans. Nat. Soc. Kasan, 1886, **15**, 1–69. 1886.1

Usow, *S.*, **Rouillier,** *C.*, & **Borsenkow,** *J.* *See* **Borsenkow, Usow** & **Rouillier.**

Ussher, *R. J.*, **Cole,** *G. A. J.*, **Newton,** *E. T.*, **Dixon,** *A. F.*, **Westropp,** *T. J.*, & **Scharff,** *R. F.* *See* **Scharff, Ussher** & others.

Ussow, *M.* *See* **Usov,** *M. M.*

Ussow, *S. A.* Die Entwicklung der Cycloid-Schuppe der Teleostier. Bull. Soc. Nat. Moscou, 1897, n. s. **11**, 339–366. 2 pls. 1897.1

—— Zur Anatomie und Entwickelungsgeschichte der Wirbelsäule der Teleostier. Bull. Soc. Nat. Moscou, 1900, n. s. **14**, 175–240. 4 pls. 1900.1

—— Vergleichend - embryologische Studien des axialen Skelettes. Entochorda. Vorläufige Mitteilung. Anat. Anz., 1906, **29**, 433–452; 501–510; 561–579. 49 figs. 1906.1

V

V. La ponte de la morue en automne dans la mer du Nord. Rev. Scient., 1905, 5. sér. **3**, 730. 1905.1

V., *R.* Un berceau de poisson. Bull. Soc. Linn. Nord France 1871 (1873), **1**, 41–43. 1873.1

Vachal, *J.* Tableau synoptique des genres et espèces de poissons d'eau douce vivant en France. Bull. Soc. Centr. Aquicult. Pêche, 1899, **11**, 257–280. Also separate; Clermont, 1900. 24 p. 8°. 1899.1

Vacher, —— De la migration du saumon et de la grande truite de mer dans le bassin de la Seine. Bull. Soc. Centr. Aquicult. Pêche, 1892, **4**, 36–38. 1892.1

Vada, *H.* La torpille et l'électricité musculaire. Presse Sci. Deux Mondes, 1862, **2**, 111–114. 1862.1

Vadász, *M. Elemér* [1885 —] Ueber die obermediterräne Fauna von Budapest-rakos [Text in Hungarian] Földt. Közlöny Köt., 1906, **36**, 256–283. pl. & fig. 1906.1

Contains references to Miocene fish-remains.

Vahl, *Martin.* Beskrivelse af fisken *Holocentrus lentiginosus.* Skrivt. Naturh. Selsk. Kiøbenhavn, 1793, **3**, pt. 1, 116–122. 1793.1

—— Beskrivelse af en nye fiskeslaegt (Cæcula) Skrivt. Naturh. Selsk. Kiøbenhavn, 1794, **3**, pt. 2, 149–156. 1794.1

—— Beskrivelse tvende nye arter af Lophius (*L. stellatus* og *L. setigerus*) Skrivt. Naturh. Selsk. Kiøbenhavn, 1797, **4**, pt. 1, 212–216. 1797.1

—— Beskrivelse af *Polynemus paradiseus* og *P. polydactylus.* Skrivt. Naturh. Selsk. Kiøbenhavn, 1798, **4**, pt. 2, 158–168. 1798.1

Vail, *David G.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 447. 1879.1

Vaillant, *Léon Louis* [1834–1915] For biographical notice and list of writings, *see* Blanchard, R., in Bull. Soc. Zool. France, 1915, **39**, 363–365. Also Notice sur les travaux scientifiques de L. L. Vaillant. Montpellier, 1868. 20 p. 8°.

—— Remarques sur la valeur de certains caractères anatomiques employés pour la classification des poissons. C. R. Acad. Sci. Paris, 1872, **75**, 1535–1539. 1872.1

—— Sur la distribution géographique des Percina (première section des Percoïdes) C. R. Acad. Sci. Paris, 1872, **75**, 1278–1281. 1872.2

—— Recherches sur les poissons des eaux douces de l'Amérique septentrionale, désignés par M. L. Agassiz sous le nom d'Etheostomatidæ. Nouv. Arch. Mus. Hist. Nat. Paris, 1873, **9**, 5–154. 1873.1

—— Remarques sur le genre Etelis. Bull. Soc. Philom. Paris, 1873, 6. sér. **10**, 67–72. 1873.2

—— Remarques sur un poisson de la collection du Musée rapporté au genre Aprion. Bull. Soc. Philom. Paris, 1873, 6. sér. **10**, 15–20. 1873.3

—— Sur certains caractères différentiels de quelques genres appartenant au groupe des Serraninæ. Bull. Soc. Philom. Paris, 1873, 6. sér. **10**, 51–54. 1873.4

—— Sur le prétendu *Serranus phaton.* Bull. Soc. Philom. Paris, 1873, 6. sér. **10**, 94. 1873.5

—— Sur les affinités des Etheostomata (Agassiz) C. R. Acad. Sci. Paris, 1873, **76**, 1423–1426. 1873.6

—— Remarques sur le genre Pogonoperca Günther. Bull. Soc. Philom. Paris, 1874, 6. sér. **11**, 9. 1874.1

—— Sur les écailles de la ligne latérale chez différents poissons percoïdes. C. R. Acad. Sci. Paris, 1874, **79**, 406–409. 1874.2

—— Sur quelques espèces critiques du genre Lutjanus. Bull. Soc. Philom. Paris, 1874, 6. sér. **11**, 43–46. 1874.3

—— Remarques sur la famille des Bogodini Bleeker. Bull. Soc. Philom. Paris, 1875, 6. sér. **12**, 32–34. 1875.1

—— Sur le développement des spinules dans les écailles du *Gobius niger* (Linné) C. R. Acad. Sci. Paris, 1875, **81**, 137–139. — Ann. Mag. Nat. Hist., 4. ser. **16**, 298–301. — C. R. Mém. Soc. Biol. Paris 1875 (1876), 6. sér. **2**, 339–341. 1875.2

—— Sur une espèce nouvelle du genre Cheilodipterus (*C. polyacanthus*) Bull. Soc. Philom. Paris 1875 (1877), 6. sér. **12**, 27–30. 1877.1

—— Sur l'œuf d'un poisson du groupe des squales, *Stegostoma tigrinum* Broussonnet. C. R. Acad. Sci. Paris, 1878, **86**, 1279–1281. 1878.1

—— Note sur une nouvelle espèce d'elasmobranche hypotrème, le *Cephaloptera* [*Dicerobatis*] *rochebrunei*. Bull. Soc. Philom. Paris 1878 (1879), 7. sér. **3**, 187–188. 1879.1

—— Sur l'*Otolithus obliquatus* Cuv. et Val. Bull. Soc. Philom. Paris 1878 (1879), 7. sér. **3**, 209–210. 1879.2

—— Note sur le genre Otocinclus et description d'une espèce nouvelle [*O. joberti*] Bull. Soc. Philom. Paris 1879 (1880), 7. sér. **4**, 145–148. 1880.1

—— Sur les raies recueillies dans l'Amazone par M. le Dr. Jobert. Bull. Soc. Philom. Paris 1879 (1880), 7. sér. **4**, 251–252. 1880.2

—— Synopsis des espèces de Siluridæ recueillies par M. le Dr. Jobert, à Caldéron (Haute-Amazone) Bull. Soc. Philom. Paris 1879 (1880), 7. sér. **4**, 150–159. 1880.3

—— Sur un poisson des grandes profondeurs de l'Atlantique, l'*Eurypharynx pelecanoides*. C. R. Acad. Sci. Paris, 1882, **95**, 1226–1228. — Ann. Mag. Nat. Hist., 5. ser. **11**, 67–69. 1882.1

—— Remarques sur les affinités naturelles des familles composant le sous-ordre des poissons malacoptérygiens abdominaux. Ann. Sci. Nat. (*Zool.*), 1883, 6. sér. **15**, art. 7, 1–13. 1883.1

—— Remarques sur l'orientation des œufs dans l'utérus chez les poissons élasmobranches ovipares. Bull. Soc. Philom. Paris, 1884, 7. sér. **8**, 178–179. 1884.1

—— Sur les caractères du *Cybium sara* Bennett. Bull. Soc. Philom. Paris, 1885, 7. sér. **9**, 21–23. 1885.1

—— Sur quelques particularités du squelette chez le *Caranx carangus* Bl. Bull. Soc. Philom., Paris, 1885, 7. sér. **9**, 7–8. 1885.2

—— Considérations sur les poissons des grandes profondeurs, en particulier sur ceux qui appartiennent au sous-ordre des Abdominales. C. R. Acad. Sci. Paris, 1886, **103**, 1237–1239. 1886.1

—— Sur les dimensions comparatives des adultes et des jeunes chez un poissons élasmobranche, l'*Alopias vulpes*. Bull. Soc. Philom. Paris, 1886, 7. sér. **10**, 41–42. 1886.2

—— Considérations sur les poissons des grandes profondeurs. Deuxième note. C. R. Acad. Sci. Paris, 1887, **104**, 123–126. 1887.1

—— Matériaux pour servir à l'histoire ichthyologique des archipels de la Société et des Pomotous. Bull. Soc. Philom. Paris, 1887, 7. sér. **11**, 49–62. 1887.2

—— Remarques sur la construction du nid de l'*Antennarius marmoratus* Less. et G., dans la mer des Sargasses. C. R. Mém. Soc. Biol. Paris, 1887, 8. sér. **4**, 732–733. 1887.3

—— Sur la présence d'un poisson appartenant au genre Neopercis dans l'Atlantique. C. R. Acad. Sci. Paris, 1887, **105**, 1032–1033. — Ann. Mag. Nat. Hist., 6. sér. **1**, 62–63. 1887.4

—— Les écailles du *Chaunax pictus* Lowe, et du *Centriscus scolopax* Linné. Bull. Soc. Philom. Paris, 1888, 7. sér. **12**, 125–127. 1888.1

—— Expéditions scientifiques du "Travailleur" et du "Talisman" pendant les années 1880, 1881, 1882, 1883. Poissons. Paris, 1888. 406 p. 28 pls. 4°. 1888.2

—— Poissons (In his Mission scientifique du Cap Horn, 1882–1883. VI. Zoologie. Paris, 1888. 35 p. 4 pls. 4°) 1888.3

—— Note sur un fœtus gigantesque d'*Oxyrhina spallanzani* Bonap. Bull. Soc. Philom. Paris, 1889, 8. sér. **1**, 38–39. 1889.1

—— Observations relatives à la montée de l'anguille sur les côtes de France. C. R. Acad. Sci. Paris, 1889, **109**, 31–33. 1889.2

—— Sur les poissons des eaux douces de Bornéo. C. R. Congr. Intern. Zool. Paris, 1889, 81–82. 1889.3

Vaillant, *L. L.*

—— Les collections d'herpetologie et ichthyologie au Muséum d'Histoire Naturelle [à Paris] Rev. Scient., 1890, **45**, 513–522. 1890.1

—— Rapport adressé au ministre de la marine au nom du comité consultatif des pêches maritimes sur la montée d'anguille. Paris, 1890. 1890.2

—— Remarques sur la pêche de la bichique à l'île de la Réunion. C. R. Acad. Sci. Paris, 1890, **110**, 93. 1890.3

—— Note sur un nouveau genre de siluroïdes (Diastatomycter) de Bornéo. Bull. Soc. Philom. Paris, 1891, 8. sér. **3**, 181–182. 1891.1

—— Sur une collection de poissons recueillis à l'île Thursday (détroit de Torrès) par M. Lix. Bull. Soc. Philom. Paris, 1891, 8. sér. **3**, 8–11. 1891.2

—— Les poissons d'aquarium. Rev. Sci. Nat. Appliquées, 1892, 24 p. 9 figs. 1892.1

—— Remarques sur quelques poissons du haut Tonkin. C. R. Acad. Sci. Paris, 1892, **114**, 1028–1029. 1892.2

—— Sur le genre Megapleuron. C. R. Acad. Sci. Paris, 1892, **114**, 1083–1084. 1892.3

—— Sur la possibilité du transport des galets dans l'appareil digestif des poissons. Bull. Soc. Géol. France, 1892, 3. sér. **20**, 111–113. 1892.4

—— Sur quelques poissons rapportés du haut Tonkin par M. Pavie. Bull. Soc. Philom. Paris, 1892, 8. sér. **4**, 125–127. 1892.5

—— Contribution à l'étude de la faune ichthyologique de Bornéo. Nouv. Arch. Mus. Hist. Nat., 1893, 3. sér. **5**, 23–112. pls. — Also separate; Paris, 1893. 2 pls. 4°. 1893.1

—— Sur les affinités du genre Oreosoma Cuvier. C. R. Acad. Sci. Paris, 1893, **116**, 598–600. 1893.2

—— Sur les poissons des eaux douces de Bornéo (In Whitehead, J. Exploration of Mount Kina Balu, North Borneo. Appendix. London, 1893. x, 317 p. illust. 4°) 1893.3

—— Sur les poissons provenant du voyage de M. Bonvalot et du Prince Henri d'Orléans. Bull. Soc. Philom. Paris, 1893, 8. sér. **5**, 197–204. 1893.4

—— Sur une collection de poissons recueillie par M. Chaper à Bornéo. Bull. Soc. Zool. France, 1893, **18**, 55–62. 1893.5

—— Sur un nouveau genre de poissons, voisin des Fierasfer. C. R. Acad. Sci. Paris, 1893, **117**, 745–746. 1893.6

—— Liste des poissons recueillis par "La Manche" dans l'océan glacial arctique (In Voyage de "La Manche" à l'île Jan-Mayen et au Spitzberg, juillet-août, 1892. Paris, 1894. 268 p. 8°) 1894.1

—— Note sur les poissons de la famille des siluridés appartenant à la faune Madécasse et description d'une espèce nouvelle. Bull. Soc. Philom. Paris, 1894, 8. sér. **6**, 75–80. 1894.2

—— Sur la faune ichthyologique du eaux douces de Bornéo. C. R. Acad. Sci. Paris, 1894, **118**, 209–211. 1894.3

—— Sur une collection de poissons recueillie en Basse-Californie et dans le Golfe par M. Léon Diguet. Bull. Soc. Philom. Paris 1894, 8. sér. **6**, 69–75. 1894.4

—— Essai monographique sur les silures du genre Synodontis. Nouv. Arch. Mus. Hist. Nat. Paris, 1895, 3. ser. **7**, 233–284. 6 pls. *Ibid.*, 1896, **8**, 87–178. 1895.1

—— Sur la constitution et la structure de l'épine osseuse de la nageoire dorsale chez quelques poissons malacopterygiens. C. R. Acad. Sci. Paris, 1895, **121**, 909–911. 1895.2

—— Sur les habitudes terricoles d'un siluroïde africain, *Clarias lazera* Cuvier et Valenciennes. Bull. Mus. Hist. Nat. Paris, 1895, **1**, 271–272. 1895.3

—— Sur un *Luvarus imperialis* Rafinesque, venant des côtes du Finistère. Bull. Mus. Hist. Nat. Paris, 1895, **1**, 238–239. fig. 1895.4

—— Etude des poissons tués par l'action d'explosifs violents éclatant sous l'eau. C. R. Soc. Philom. Paris, 1896, 40–41. 1896.1

—— Note sur l'œuvre ichthyologique de C. A. Lesueur. Bull. Soc. Philom. Paris, 1896, 8. sér. **8**, 15–32. 1896.2

—— Un poisson terrestre. Le Pêcheur, 1896, 2. sér. **1**, 5. 1896.3

—— Quelques poissons du Soudan français, envoi de M. Chevalier. Bull. Mus. Hist. Nat. Paris, 1896, **2**, 133–135. 1896.4

—— Sur la structure histologique des rayons osseux chez la carpe (*Cyprinus carpio* Linn.) Congr. Zool. Leide, 1896, 275–278. 1896.5

—— Sur le mode de formation des coprolithes hélicoïdes, d'après les faits observés à la ménagerie des reptiles sur les protoptères. C. R. Acad. Sci. Paris, 1896, **122**, 742–743.—Rev. Scient., 1896, 4. sér. **5**, 471–472. 1896.6

—— Contribution à l'étude ichthyologique du Chagres. Bull. Mus. Hist. Nat. Paris, 1897, **3**, 220–223. 1897.1

—— La répartition des siluroïdes dans l'espace et dans le temps. Revue Scient., 1897, 4. sér. **7**, 685–689. 1897.2

—— Siluroïde nouveau de l'Afrique orientale (*Chimarrhoglanis leroyi*) Bull. Mus. Hist. Nat. Paris, 1897, **3**, 81–84. 1897.3

—— Sur les espèces à distinguer dans le genre Nebris Cuvier et Valenciennes. Bull. Mus. Hist. Nat. Paris, 1897, **3**, 124. 1897.4

—— Sur quelques exemplaires du genre Scorpis, appartenant aux collections du Muséum d'Histoire Naturelle. Bull. Mus. Hist. Nat. Paris, 1897, **3**, 84–87. 1897.5

—— Sur un poisson rare pour la faune française, le *Trichiurus lepturus* Linné. Bull. Mus. Hist. Nat. Paris, 1897, **3**, 166–167. — Bull. Soc. Sci. Nat. Ouest Nantes, **7**, 53–54. 1897.6

—— Contribution à l'étude de la faune ichthyologique de la Guyane. Notes Leyden Mus., 1898, **20**, 1–20. 1898.1

—— De la structure spéciale des épines chez les Apogonini et quelques autres poissons acanthoptérygiens. Proc. 4. Intern. Zool. Congr., London, 1898, 174–176. 2 figs. 1898.2

—— On the presence of the common eel in the open sea. Ann. Mag. Nat. Hist., 1898, 7. ser. **2**, 355–356. 1898.3

—— Remarques sur les appendices de Bloch chez les siluroïdes du genre Aspredo. C. R. Acad. Sci. Paris, 1898, **126**, 544–545. 1898.4

—— Sur la présence de l'anguille commune en haute mer. C. R. Acad. Sci. Paris, 1898, **126**, 1429–1430. 1898.5

—— Note préliminaire sur les collections ichthyologiques recueillies par M. Geay en 1897 et 1898 dans la Guyane française et le contesté Franco-Brésilien. Bull. Mus. Hist. Nat. Paris, 1899, **5**, 154–156. 1899.1

—— [A propos des raies cornues] Bull. Mus. Hist. Nat. Paris, 1899, **5**, 112–113. 1899.2

—— *Protopterus retropinnis* et *Ectodus foæ*, espèces nouvelles de l'Afrique équatoriale. Bull. Mus. Hist. Nat. Paris, 1899, **5**, 219–222. 1899.3

—— Contribution à l'étude de la faune ichthyologique de la Guyane française et du contesté Franco-Brésilien. Nouv. Arch. Mus. Hist. Nat. Paris, 1900, 4. sér. **2**, 123–136. pl. 1900.1

—— Poissons. Anatomie et physiologie (In his Notice sur les travaux scientifiques, p. 47–133. Paris, 1900) 1900.2

—— Sur un griset (*Hexanchus griseus* L. Gm.) du golfe de Gascogne. Bull. Mus. Hist. Nat. Paris, 1901, **7**, 202–204. 1901.1

—— Résultats zoologiques de l'éxpédition scientifique néerlandaise au Bornéo central. Poissons. Notes Mus. Leiden, 1902, **24**, 1–166. 2 pls. & figs. 1902.1

—— Sur la faune ichthyologique des eaux douces de Bornéo. C. R. Acad. Sci. Paris, 1902, **135**, 977–980. 1902.2

—— Sur le genre nouveau Gyrinocheilus, de la famille des Cyprinidæ. C. R. Acad. Sci. Paris, 1902, **135**, 702–704. 1902.3

—— Sur la présence du tissu osseux chez certains poissons des terrains paléozooïques de Canyon city, Colorado. C. R. Acad. Sci. Paris, 1902, **134**, 1321–1322. 1902.4

Treats of the structure of dermal plates of *Astraspis desiderata* Walcott, recognized by Eastman in Proc. U. S. Nat. Mus., 1917, **52**, 238 as an ostracoderm.

—— Incubation bucco-branchiale observée sur un cheilodiptère de la Martinique. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 207–209. 1903.1

—— Note complémentaire sur le portrait de Bloch. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 111–112. 1903.2

—— Remarques sur la composition chimique de l'anguille, à différents états de son développement. C. R. Mém. Soc. Biol. Paris, 1903, **55**, 749–750. 1903.3

Vaillant, *L. L.*

—— Sur un exemplaire type du *Plotosus nigricans* Cuvier et Valenciennes, et remarques taxinomiques sur le groupe des Plotisina. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 117–120. 1903.4

—— Poissons recueillis par M. A. Pavie en Indo-Chine (In Mission Pavie Indo-Chine, 1879–1895, vol. iii. p. 459–470. pl. Paris, 1904. 4°) 1904.1

—— Quelques reptiles, batraciens et poissons du Haut-Tonkin. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 297–301. 1904.2

—— Sur un cyprinoïde nouveau de Tunisie, le *Leuciscus* (*Phoxinellus*) *chaignoni*. Bull. Mus. Hist. Nat. Paris, 1904, **10**, 188–190. — Bull. Soc. Sci. Nat. Autun, **17**, 158–162. pl. 1904.3

Notes additionelles à l'article de Chaignon: Histoire naturelle de la Tunisie.

—— Sur le *Mitsukurina owstoni* Jordan. C. R. Acad. Sci. Paris, 1904, **138**, 1517–1518. 1904.4

—— Description de poissons nouveaux ou imparfaitement connus de la collection du Muséum d'Histoire Naturelle. Le genre Alabes de Cuvier. Arch. Mus. Hist. Nat. Paris, 1905, **7**, 145–158. figs. 1905.1

—— Le genre Alabes de Cuvier. C. R. Acad. Sci. Paris, 1905, **140**, 1713–1715. 1905.2

—— La faune des poissons de la région polaire antarctique. C. R. Congr. Soc. Sav. Paris, 1906, 168–170. 1906.1

—— Sur les poissons recueillis pendant l'expédition antarctique française commandée par le Dr. Jean Charcot. Note préliminaire. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 138–140. 1906.2

—— Sur une nouvelle espèce de Chænichthys [*C. charcoti*] provenant de l'expédition antarctique française sous le commandement du Dr. Jean Charcot. Bull. Mus. Hist. Nat. Paris, 1906, **12**, 246–247. 1906.3

—— Poissons (In Expédition Antarctique française [1903–1905] commandée par le Dr. Jean Charcot. Sciences naturelles: documents scientifiques. Ouvrage publié sous . . . la direction de L. Joubin, p. 1–52. Paris, [1907] 8°) 1907.1

—— Ichthyologie de l'Afrique centrale (In Résultats scientifiques des voyages en Afrique d'Edouard Foa, p. 559–568. Paris, 1908. 8°) 1908.1

—— Sur un individu monstrueux nyctéridoide du *Raja clavata* Linné. Bull. Mus. Hist. Nat. Paris, 1908, **14**, 112–113. 1908.2

—— Note sur un emploi singulier de la peau des tétrodons. Bull. Mus. Hist. Nat. Paris, 1911, **17**, 7–8. 1911.1

—— Sur la disposition de l'appareil branchial chez un céphaloptère (*Mobula olfersii* Müller) Bull. Mus. Hist. Nat. Paris, 1912, **18**, 287–291. 1912.1

Vaillant, *Léon Louis,* & **Bocourt,** *Firmin.* Etudes sur les poissons (In their Mission scientifique au Méxique et dans l'Amérique centrale, quatrième partie, 1–265. 20 pls. Paris, 1874–1915. 4°) 1874.1

This work was published in instalments as follows: p. 1–40 in 1874; 41–120 in 1878; 121–200 in 1883; and 201–265 in 1915. The text was left incomplete upon the death of the senior author in 1915.

Vaillant, *Léon Louis,* & **Diguet,** *L.* Sur le céphaloptère du golfe de Californie. Bull. Mus. Hist. Nat. Paris, 1898, **4**, 127–129. 1898.1

Vaillant, *Léon Louis,* & **Pellegrin,** *Jacques.* Cichlidés nouveaux de l'Amérique centrale. Bull. Mus. Hist. Nat. Paris, 1902, **8**, 84–88. 1902.1

—— Note sur quelques tétragonoptères de l'Amérique centrale appartenant à la collection du Muséum. Bull. Mus. Hist. Nat. Paris, 1903, **9**, 323–326. 1903.1

Vaillant, *Léon Louis,* & **Pettit,** *Auguste.* Sur la structure du tégument chez le *Synodontis schalli* Bloch-Schneider. Bull. Mus. Hist. Nat. Paris, 1898, **4**, 264–267. 1898.1

Vaillant, *Léon Louis,* & **Sauvage,** *Henri Emile.* Note sur quelques espèces nouvelles de poissons des îles Sandwich. Rev. Mag. Zool., 1875, 3. sér. **3**, 278–287. 1875.1

Valantin, —— Observations sur les premiers essais de pisciculture tentés dans le département de la Lozère. Bull. Soc. Agric. Mende, 1855, **6**, 132–139. 1855.1

Valatour, *Martial.* Recherches sur les glandes gastriques et les tuniques musculaires du tube digestif dans les poissons osseux et les batraciens. Ann.

Sci. Nat. (*Zool.*), 1861, 4. sér. **16**, 219–285. 2 pls. 1861.1

Valenciennes, *Achille* [1794–1865] Sur le sous-genre marteau, Zygæna. Mem. Mus. Hist. Nat., 1822, **9**, 222–228. 2 pls. 1822.1

—— Description du cernié, *Polyprion cernium.* Mém. Mus. Hist. Nat. Paris, 1824, **11**, 265–269. pl. 1824.1

—— Description d'une grande espèce de squale, voisin des leiches [*Scymnus micropterus borealis*] Nouv. Ann. Mus. Hist. Nat. Paris, 1832, **1**, 454–468. fig. 1832.1

—— Descriptions de plusieurs nouvelles poissons du genre Apogon. Nouv. Ann. Mus. Hist. Nat. Paris, 1832, **1**, 51–60. fig. 1832.2

—— Poissons (In Voyage aux Indes-Orientales, publié par Charles Bélanger, p. 337–399. Paris, 1834) 1834.1

—— Ichthyologie des îles Canaries, ou Histoire naturelle des poissons rapportés par MM. Webb et Berthelot (In Webb, P. B., & Berthelot, S. Histoire naturelle des îles Canaries, vol. 2, pt. 2. 25 pls. Paris, 1835–50. 4°) 1835.1

—— Les poissons (In Cuvier, G. Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux, et d'introduction a l'anatomie comparée [Troisième] édition . . . par une réunion de disciples de Cuvier, MM. Audouin, Blanchard, etc. Paris, 1836–49) 1837.1

—— Considérations générales sur l'ichthyologie de l'Atlantique. C. R. Acad. Sci. Paris, 1838, **7**, 717–722. — Rev. Zool., 1838, 244. — L'Institut, **6**, 338. 1838.1

—— Rapport sur quelques poissons d'Amérique, rapportés par M. Petland. L'Institut, 1839, **7**, 276. 1839.1

—— Nouvelles observations sur l'organe électrique du silure électrique (*Malapterurus electricus* Lacépède) Ann. Sci. Nat. (*Zool.*), 1840, 2. sér. **14**, 241–244. — C. R. Acad. Sci. Paris, **11**, 277–280. — Arch. Mus. Hist. Nat. Paris, **2**, 43–62. 1840.1

—— Note sur certains genres de poissons et de reptiles qu'on ne peut classer d'une manière absolue, comme marins ou d'eau douce. Ann. Sci. Nat. (*Zool.*), 1841, 2. sér. 110–112. — Edinburgh New Phil. Journ., **32**, 165–168. — Notizen (Froriep), **12**, 181–184. — Neues Jahrb. Mineral., 1842, 248. 1841.1

—— Determination des poissons (In Voyage autour du monde . . . sur . . . la "Bonite," etc. Zoologie, vol. i. Paris, 1842. 8°) 1842.1

—— Description de quelques dents fossiles de poissons trouvées aux environs de Staoueli, dans la province d'Alger. Ann. Sci. Nat. (*Zool.*), 1844, 3. sér. **1**, 99–104. pl. 1844.1

—— Nouvelles recherches sur les poissons de la famille des clupées. C. R. Acad. Sci. Paris, 1846, **23**, 265–271. — Notizen (Froriep), **39**, 289–295. 1846.1

—— Histoire naturelle du hareng, comprenant la description zoologique et anatomique de cet important poisson, et une histoire détaillée de sa pêche ancienne et moderne. Extrait du tome xx de l'Histoire naturelle des poissons. Paris, 1847. 260 p. 3 pls. 8°. 1847.1

—— Poissons. Catalogue des principales espèces de poissons rapportées de l'Amérique méridionale (In Orbigny, A. d'. Voyage dans l'Amérique méridionale, vol. v, pt. 2. Paris, 1847. fol.) 1847.2

—— Histoire naturelle des poissons. Paris, 1850. Text & atlas of 122 col. pls. 8°. 1850.1

—— Exposé des tentatives faites pour acclimater en France plusieurs poissons des eaux douces de l'Allemagne. C. R. Acad. Sci. Paris, 1851, **32**, 817–820. 1851.1

—— Rapport sur les espèces de poissons de la Prusse, qui pourraient être importées et acclimatées dans les eaux douces de la France. Ann. Agronomiques, 1851, **2**, 213. 1851.2

—— Recherches sur la structure du tissu élémentaire des cartilages des poissons et des mollusques. Arch. Mus. Hist. Nat. Paris, 1851, **5**, 505–528. 1851.3

—— Note sur les silures rapportés vivants des eaux douces de la Prusse en 1851. C. R. Acad. Sci. Paris, 1855, **41**, 501–503. — L'Institut, 1835, no. 1135. 1855.1

—— Description d'une nouvelle espèce d'aspidophore pêché dans l'une des anses du port de l'empereur Nicolas (Manche de Tartarie) et rapporté par Barthe, chirurgien du bord de la frégate

Valenciennes, *A.*
"La Sibylle," etc. C. R. Acad. Sci. Paris, 1858, **47**, 1043. 1858.1

— Note sur quelques poissons d'Algérie. C. R. Acad. Sci. Paris, 1858, **46**, 711–715. — L'Institut, **26**, no. 1268. 1858.2

— Sur l'importance des recherches de M. le professeur Molin sur les poissons fossiles du monte Bolca. C. R. Acad. Sci. Paris. 1861, **53**, 643. 1861.1

—— Description de quelques espèces nouvelles de poissons envoyées de Bourbon par M. Morel. C. R. Acad. Sci. Paris, 1862, **54**, 1165–1170; 1201–1207. 1862.1

Valenciennes, *Achille,* & **Cuvier,** *(Baron) Georges. See* **Cuvier & Valenciennes.**

Valenciennes, *Achille,* & **Fremy,** *Edmond.* Note sur un procédé qui permet de reconnaitre la maturité des œufs de certains poissons. Bull. Soc. Acclim. Paris, 1854, **1**, 146. 1854.1

—— Recherches sur la composition des œufs dans la série des animaux. C. R. Acad. Paris, 1854, **38**, 469–484; 525–533; 570–580. Annal. Chimie, **1**, 129–178. — Journ. Pharm., **25**, 321–336; 415–423. *Ibid.*, **26**, 5–16. — Amer. Journ. Sci., **19**, 38–48; 238–243. *Ibid.*, **20**, 65–72. 1854.2

—— Recherches sur la nature du cristallin dans la série des animaux. C. R. Acad. Sci. Paris, 1854, **44**, 1122–1134. — Journ. Pharm., **32**, 5–19. 1854.3

Valenti, *Giulio.* Contributo alla istogenesi della cellula nervosa e della nevroglia nel cervello di alcuni pesci condrostei. Atti Soc. Toscana Sci. Nat., 1891, **12** (*Mém.*), 83–98. *Ibid.* (*Proc. Verb.*), 285–286. — Arch. Ital. Biol., 1891, **16**, 247–252. 1891.1

—— Sopra i primitivi rapporti delle estremità cefaliche della corda dorsale e dell' intestino. Atti Soc. Toscana Sci. Nat., 1898, **16** (*Mém.*), 59–71. pl. 1898.1

Valentin, —— Elektricität der Thiere (In Wagner, R. Handwörterbuch der Physiologie, Bd. i, p. 256. Braunschweig, 1842) 1842.1

Valentin, *Gabriel Gustav* [1810–1883] Ueber die Organisation der Trabeculæ carneæ in der Schwimmblase von *Lepisosteus spatula* Lacép. Repert. Anat. Physiol. (Valentin), 1840, **5**, 392–397. 1840.1

—— Ueber ein Entozoon im Blute von *Salmo fario.* Arch. Anat. Physiol. (Müller), 1841, 435–436. — Ann. Sci. Nat. (*Zool.*), 2. sér. **16**, 303–305. 1841.1

—— Beiträge zur Anatomie des Zitteraales (*Gymnotus electricus*) N. Denkschr. Schweiser. Ges. Naturw., 1842, **6**. — Repert. Anat. Physiol. (Valentin), 1842, **6**, 353. 1842.1

—— Ueber das centrale Nervensystem und die Nebenherzen der *Chimæra monstrosa.* Archiv Anat. Physiol. (Müller), 1842, 25–45. 1842.2

—— Zur Entwicklungsgeschichte der Fische; aus einem Schreiben an A. Kölliker. Zeitschr. Wiss. Zool., 1850, **2**, 267–270. 1850.1

—— Ein Beitrag zur Entwickelungsgeschichte der Doppelmissgeburten. Arch. Physiol. Heilk., 1851, 10. Jahrg., 1–40. — C. R. Soc. Biol. Paris, 1852, **4**, 92–102. 1851.1

Valentine, *C. L.* The spawn of the brook trout. Chicago Field, 1880, **12**, 341. 1880.1

Valenziani, *Carlo.* Catalogo di libri giapponesi acquistati di recente dalla Biblioteca Vittorio Emmanuele di Roma. Boll. Ital. Studii Orientali, 1876–77, **1**, 159–160; 239–240; 399–400; 418–420. 1877.1

Valèry-Mayet, —— Acclimatization of *Salmo quinnat* in France. Bull. U. S. Fish Comm. 1884, **4**, 138. 1884.1

—— Hatching salmon eggs at Montpellier, France, and trouble with fungus. Bull. U. S. Fish Comm. 1885, **5**, 272. 1885.1

Vallaux, *Camille.* L'industrie des pêches dans la mer du Nord. Rev. Gén. Sci., 1914, **25**, 433–440. fig. 1914.1

Valle, *Antonio.* Crostacei parassiti dei pesci del mare Adriatico. Boll. Soc. Adriatica Sci. Nat. Trieste, 1880, **6**, 55–90. *Ibid.*, 1881, **7**, 245–247. 1880.1

Vallé-Pope, *Edward.* The fishes of Cambridgeshire (In Marr, J. E., & Shipley, A. E. Handbook of the natural history of Cambridgeshire, p. 108–113. London, 1904. 8°) 1904.1

Vallet, *A. G.* Sur la présence de l'iode dans l'huile de foie de morue. Journ. Pharm., 1837, **23**. 501–502. 1837.1

Vallot, *Jean Nicolas* [— 1858] Poisson à pattes. Séances Acad. Sci. Dijon, 1817, 16–18. 1817.1

—— Histoire naturelle des poissons du département de la Côte d'Or. Mém. Acad. Sci. Dijon, 1836, pt. 2, 5–310. 1836.1

—— Ichthyologie française, ou Histoire naturelle des poissons d'eau douce de la France. Dijon, 1837. 8°. 1837.1

—— Détermination de plusieurs poissons mentionnés par Aristote. Mém. Acad. Sci. Dijon, 1838, 67–103. 1838.1

—— Note sur la détermination de plusieurs espèces de poissons indiquées par Aristote. Rev. Zool., 1839, 117. 1839.1

—— Supplément à l'ichthyologie française, et tableau général des poissons d'eau douce de la France. Mém. Acad. Sci. Dijon, 1850, pt. 2, 25–178. Also separate; Dijon, 1850. 1850.1

Valmer, —— Sur les aquaria d'eau de mer et d'eau douce établis au jardin zoologique de Londres. Bull. Soc. Acclim. Paris, 1856, **3**, 281–287. 1856.1

Valmont de Bomare, *Jacques Christophe* [1731–1807] Dictionnaire raisonné d'histoire naturelle, contenant l'histoire des animaux, des végétaux et des minéraux . . . des météores, etc. 5 vols. Paris, 1765. 8°. 1765.1

—— The same. 2. éd. 4 vols. Paris, 1768. 4°.

—— The same. 4. éd. 8 vols. Lyon, 1791.

Valverde, —— Manual del pescador; tratado completo de pesca. Con anzuelo y con redes acompañado de indicaciónes para la conservación y fomento de la pesca, sobre el acuario, etc. Barcelona, 1879. 135 p. illust. 8°. 1879.1

Vananda, *S. G.* Wonderful growth of brook trout. Chicago Field, 1879, **11**, 164. 1879.1

—— Rapid growth of brook trout. Forest & Stream, 1880, **14**, 245. 1880.1

Van Antwerp, *W.* Growth, spawning, edible qualities and manner of cooking German carp received from the United States Fish Commission in 1880. Bull. U. S. Fish Comm. 1882 (1883), **2**, 300. 1883.1

Van Cleef, *J. S.* How to restore trout streams. Trans. Amer. Fisheries Soc. 1885 (1886), 50–55. 1886.1

—— Decadence of our trout streams. Trans. Amer. Fisheries Soc. 1895 (1896), 28–35. 1896.1

Vancouver, *George* [1757–1798] A voyage of discovery to the north Pacific ocean and round the world . . . performed in . . . 1790–1795, in the "Discovery" . . . and . . . "Chatham." [Edited with a preface by J. Vancouver] 3 vols. & atlas. London, 1798. illust. 4° & fol. 1798.1

Some manuscript zoological notes, made by A. Menzies, during the voyage, are inserted at the end of the atlas.

Vandelli, *Domingo.* Flora et fauna Lusitanicæ specimen. Mem. Acad. Sci. Lisboa, 1797, **1**, 37. 1797.1

Van der Hoeven, *J.* *See* **Hoeven,** *J. van der.*

Van der Lott, *Fransl.* *See* **Lott,** *F. van der.*

Van der Snickt, *L.* *See* **Snickt,** *L. van der.*

Vanderstell, *Adrien,* & **Coyett,** *Balt.* *See* **Coyett** & **Vanderstell.**

Van der Stricht, *O.* *See* **Stricht,** *O. van der.*

Van Dine, *Delos L.* The introduction of top-minnows into the Hawaiian islands [Honolulu, 1900?] 10 p. 8°. 1900.1

Van Doren, *Louis O.* The fishes of the east Atlantic coast that are caught with hook and line; including the fishes of the east coast of Florida, by Samuel C. Clarke. New York, 1884. 97 p., illust. 1884.1

Description of fish, their haunts, natural history, etc.

Vaney, *Clément,* & **Conte,** *Albert.* Sur la distribution géographique et l'adaptation aux eaux douces de quelques formes marines. C. R. Acad. Sci. Paris, 1902, **134**, 115–117. — C. R. Mém. Soc. Biol. Paris, 1902, **54**, 47–48. 1902.1

—— L'industrie de la pêche dans les Dombes. Bull. Piscicult., Toulouse, 1908, 11–26. 1908.1

Vaney, *Clément,* **Conte,** *Albert,* & **Chifflot,** —— *See* **Chifflot, Conte,** & **Vaney.**

Van Gehuchten, *A.* *See* **Gehuchten,** *A. van.*

Vanhaecken, *Arnold.* The wonders of ye deep often attempted, but never perform'd but by Arnold Vanhaecken [n. pl.] 1762. fol. 1762.1

Nine plates, "painted from the life by A. V. Engrav'd by Giles King." The first, "The view and humours of Billingsgate," and the rest spirited drawings of fish, in picturesque groups.

Van Hasselt, *J. K.*, & **Kuhl,** *Heinrich. See* **Kuhl & Hasselt.**

Vanherman, *Thomas.* Method of manufacturing cheap and durable paints with fish-oil. Phil. Mag., 1806, **25**, 50–57. — Journ. Nat. Phil., **14**, 258–265. 1806.1

Vanhöffen, *Ernst* [1858 —] Ueber die Ceratodus-Flosse. Verh. Ges. Deutsch. Naturf., 1890, **2**, 134. — Ges. Naturf. Aerzte, 63. Vers. 1890.1

—— Grönland. Expedition der Gesellschaft für Erdkunde zu Berlin, 1891–93. Bd. ii, pt. 1. Berlin, 1897. 1897.1

Enthält Beschreibung von Gadus-Arten.

—— Von der deutschen Südpolarexpedition; Fischereiversuche. Petermann's Geogr. Mitt., 1901, **47**, 19–20. 1901.1

Vanière, (*Père*) *Jacques.* Jacobi Vanierii, e Societate Jesu sacerdotis, prædium rusticum. Nova editio. Parisiis, 1765. 8°. 1765.1

—— The same. Paris, 1780. 12°. 1780.1

—— Fishing. A translation from the Latin of [Prædium rusticum] book xv, upon fish, by John Duncombe. With a brief introduction and passages from English writers selected as notes [by Joseph Haslewood] London, 1809. 44 p. 8°. 1809.1

"The following pages form an article in the 'Censura literaria,' but a few additional copies have been printed for general distribution."

This translation was also reprinted, without acknowledgment, by Daniel, in his "Supplement to the rural sports," 1813.

Van Ingen, *Gilbert*, & **Clark,** *Edwin P.* Disturbed fossiliferous rocks in the vicinity of Rondout, N. Y. Bull. N. Y. State Mus. 1903, no. 69. — 56. Ann. Rept. N. Y. State Mus., 1903, **2**, 1176–1227. 13 pls. 1903.1

Van Kampen, *P. N. See* **Kampen,** *P. N. van.*

Van Mater, *J. H.* Occurrence of *Balistes vetula* on the New Jersey coast. Bull. U. S. Fish Comm. 1884, **4**, 13. 1884.1

Van Slyke, *Donald D.*, & **White,** *George F.* Digestion of protein in the stomach and intestine of the dogfish. Proc. Soc. Exper. Biol. Med. N. Y., 1910, **8**, 11–12. — Journ. Biol. Chem., **9**, 209–217. 1910.1

Van Spall, *P. W. A. See* **Spall,** *P. W. A. van.*

Van Vleck, *Balfour H.*, & **Jordan,** *David Starr. See* **Jordan & Van Vleck.**

Van Wijhe, *J. W. See* **Wijhe,** *J. W. van.*

Varenne de Fenille, —— Mémoire sur les causes de la mortalité du poisson dans les étangs pendant l'hiver de 1788 à 1789, et sur les moyens de l'en préserver à l'avenir (In his Observations sur l'agriculture. Lyon, 1789) Notice in Journ. Phys. (Rozier), **35**, 339. 1789.1

Varigny, *Henri C. de* [1855 —] Sur le rythme respiratoire de quelques poissons. C. R. Mém. Soc. Biol. Paris, 1892, 9. sér. **4**, 886–888. 1892.1

—— Les grandes pêcheries aux Etats-Unis. Le "menhaden." Bull. Soc. Centr. Aquicult. Pêche, 1894, **6**, 110–121. — Rev. Scient., 4. sér. **1**, no. 11. 1894.1

—— Les pêcheries de la Volga. Rev. Scient., 1897, 4. sér. **7**, 364–368; 397–401. 1897.1

—— Le problème de l'anguille. La Nature, 1897, **25**, pt. 2, 51–53. 2 figs. 1897.2

—— Histoire d'un poisson. Rev. Scient., 1898, 4. sér. **9**, 497–499. 1898.1

—— La question de la pisciculture marine. Rev. Scient., 1906, 5. sér. **6**, 207–210. 1906.1

Varpakhovskiĭ, *Nikolai Arkadevich* [1862 —] Ichthyologische Fauna des Flusses Kleinkokschag [Text in Russian] Arbeit. Naturf. Ges. Kasan, Protokolle, 1883, no. 63, 14 p. 1883.1

—— Die Fische des Flusses Ssura [Text in Russian] Kasan, 1884. 14 p. 8°. Abstract in Zool. Anz., **8**, 474. 1884.1

—— The fishes of lake Ilmen and of the river Wolchow, government of Novgorod [Text in Russian] Zapiski Akad. Nauk St. Petersb., 1886, **53**, 31–68. 1886.1

—— On the ichthyological fauna of the government of Kasan [Text in

Russian] Zapiski Akad. Nauk St. Petersb., 1886, **52**, 1–71. map. 1886.2

—— Notiz über die in Russland vorkommenden Arten der Gattung Phoxinus. Bull. Acad. Sci. St. Petersb., 1887, **12** (*Mél. Biol.*), 685–690. — Bull. Acad. Sci. St. Petersb., **32**, 533–536. 1887.1

—— Ueber die Gattung Hemiculter Bleek. und über eine neue Gattung Hemiculterella. Bull. Acad. Sci. St. Pétersb., 1887, 14–23. 1887.2

—— Litteratur der Ichthyologie Russland für 1886 und 1887 [Text in Russian] St. Petersburg, 1888–89. 8°. 1888.1

—— Ueber einen Fall einer überzähligen Bauchflosse beim gemeinen Wels (*Silurus glanis* L.) Anat. Anz., 1888, 3. Jahrg., 379. 1888.2

—— Kleine Beiträge zur ichthyologischen Fauna Russlands [Text in Russian] 2 pts. St. Petersburg, 1889. 8°. 1889.1

—— Monographie der Cypriniden-Familie Oreoleuciscus [Text in Russian] St. Petersburg, 1889. 3 pls. 8°. 1889.2

—— Ueber die ichthyologischen Fauna des asiatischen Russlands [Text in Russian] St. Petersburg, 1889. pl. 8°. 1889.3

—— Sur la faune ichthyologique du bassin du fleuve Obi [Text in Russian] Ann. Mus. Acad. Imp. St. Pétersb., 1897, 241–271. 2 pls. *Ibid.*, 1899, **4**, 325–374. 3 pls. 1899.1

—— The fishes of lake Teletzki [Text in Russian] Ann. Mus. Acad. Imp. St. Pétersb., 1900, **5**, 412–427. pl. 1900.1

—— Zur Ichthyofauna des Flusses Petschora. Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1901, **6**, 585–608. pl. 1901.1

Varpakhovskiĭ, *N. A.*, & **Herzenstein,** *S. See* **Herzenstein & Varpakhovskiĭ.**

Varro, *Marcus Terentius* [114–26 B.C.] M. T. Varronis de re rustica libri iii (In Gesner, J. M. Scriptores rei rusticæ veteres latini, etc., 1787, vol. i, 8°) 1787.1

Varthema, *Ludovico* [1480–1510] Voyages and travels in Egypt, Syria, Arabia, Persia and India . . . in 1503 (In Kerr, R. A. General . . . collection of voyages and travels, etc., 1824. vol. vii. 8°) 1824.1

Vassalli-Eandi, *Anton Maria.* Lettre sur les phénomènes de la torpille. Journ. Physique, Paris, 1799, **49**, 69–72. 1799.1

Vauchelet, —— Notice sur les poissons de rivière de la Guadeloupe et particulièrement sur le Pisquet. Bull. Soc. Acclim. Paris, 1863, **10**, 492–504. 1863.1

Vaucher, *A.* Renseignements sur la pisciculture à Genève. Intern. Fischerei Ausstell. Berlin, 1880 (Schweiz. Katalog) 56–76. 1880.1

Vaughan, *Arthur,* & **Reynolds,** *Sidney Hugh. See* **Reynolds & Vaughan.**

Vaughan, *Mervyn.* Observations on the flight of flying-fishes. Trans. Edinburgh Field Nat. Micr. Soc., 1907, **5**, 406–410. 1907.1

Vauquelin, *Louis Nicolas* [1763–1829] Analyse des œufs de brochet. Journ. Pharm., 1817, **3**, 385–390. — Ann. Phil., **12**, 148–149. 1817.1

Vauquelin, *Louis Nicolas,* **Cuvier,** *(Baron) Georges,* & **Lacépède,** *(Comte) Bernhard Germain Etienne. See* **Lacépède, Vauquelin & Cuvier.**

Vauquelin, *Louis Nicolas,* & **Fourcroy,** *Antoine François. See* **Fourcroy & Vauquelin.**

Vauvert, *M.* La pêche de la sardine. Le Monde Illustré, Paris, 1870, no. 374. 1870.1

Vávra, *Vélav.* Ueber einen Fall von Wirbelsäulenverkürzung bei einer Regenbogenforelle (*Salmo iridæus* W. Gibb.) Bull. Intern. Acad. Sci. Prague, math.-nat. Sect., 1906, **11**, 1–5. 2 pls. 1906.1

Vávra, *V.*, & **Fritsch,** *Anton. See* **Fritsch & Vávra.**

Vayssière, *Albert* [1854 —] Note sur un *Trachypterus iris* trouvé mort à l'éntrée du port de Carry-le-Rouent (Bouches-du-Rhône) C. R. Mém. Soc. Biol. Paris, 1908, **64**, 780. 1908.1

—— Note zoologique et anatomique sur quelques Trachypterus pris dans le golfe de Marseille de 1874 à 1908. Ann. Fac. Sci. Marseille, 1908, **16**, 121–128. 1908.2

—— Note sur un œuf double de squale. C. R. Mém. Soc. Biol. Paris, 1909, **67**, 872–873. 1909.1

Vayssière, *A.*, & **Quintaret,** *G.* Sur un cas d'hermaphrodisme d'un *Scyllium stellare* L. C. R. Acad. Sci. Paris, 1914, **158**, 2013–2014. 1914.1

Appareil femelle normal, appareil mâle sans relation avec système néphridien.

Veckenstedt, *Edmond.* An dem Karpfenteichen der Niederlausitz. Gartenlaube, Leipzig, 1877, 759–762. 1877.1

—— On the carp ponds of Nether-Lusatia. Rept. U. S. Fish Comm. 1878 (1880), **6**, 671–674. 1880.1

Veesènmeyer, (*Dr.*) —— Der Frauenfisch. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1859, **15**, 47–51. 1859.1

—— Ueber die in einem Fischglas ausgestellten lebenden Grundeln (*Cobitis fossilis* und *C. tænia* L.) Jahresh. Ver. Vaterl. Naturk. Württemberg, 1863, **19**, 52–54. 1863.1

—— Beiträge zur Fauna Württembergs. Jahresh. Ver. Vaterl. Naturk. Württemberg, 1884, **40**, 325–326. 1884.1

Beschreibung von *Barbus fluviatilis* Ag. var. *auratus.*

Veit, *Otto.* Ueber einige Besonderheiten am Primordialcranium von *Lepidosteus osseus.* Anat. Hefte, 1907, 1. Abth., 155–203. 1907.1

—— Beiträge zur Kenntniss des Kopfes der Wirbeltiere. 1. Die Entwickelung des Primordialcranium von *Lepidosteus osseus.* Anat. Hefte, 1911, 1. Abth., **44**, 93–225. 5 pls. 1911.1

Vejdovský, *František* [1849 —] O trêné mihule (*Petromyzon planeri*) Sitzber. Böhmisch. Ges. Wiss., 1893, no. 49, 1–4. 1893.1

Observation of spawning process in an aquarium containing four males and one female.

Vejdovský, *F.*, & **Mrázek,** *A.* Centrosom und Periplast, eine vorläufige Mittheilung. Sitzber. Böhmisch. Ges. Wiss., 1898, no. 15, 1–11. 6 figs. 1898.1

Velasco, *Juan de.* Historia del reino de Quito en la America meridional, escrita por el Presbiterio Don Juan de Velasco, nativo del mismo reino. Tome I, y parte I, que contiene la historia natural. Año de 1789. Quito, 1844. 8°. 1844.1

Venables, *Edmund* [1819–1895] The Isle of Wight. A guide . . . with . . . a . . . synopsis of its topography . . . geology, zoology and botany, etc. London, 1860. xvi, 526 p. 8°. 1860.1

Contains an article on freshwater fishes, by A. G. More.

Venables, *George.* Salmon in the Thames and other rivers. London, 1858. 34 p. 8°. 1858.1

—— The same. 3. ed. London, 1874. 8°. 1874.1

Venegas, *Miguel.* Noticia de la California. Sacada de la manuscripta, formada en Mexico año de 1739. 3 vols. Madrid, 1757. 8°. 1757.1

This is translated as follows:

—— A natural and civil history of California . . . from the original Spanish of Miguel Venegas. 2 vols. London, 1759. 8°. 1759.1

A few references to fish occur at p. 47–48 of vol. i. A French version of this work was published at Paris in 1766, and a German one at Lemgo in 1769.

Venema, *G. A.* De visscherij in de provincie Groningen. Groningen, 1868. 19 pls. 8°. 1868.1

Venyaminov, *N.* Die Fische und Fischzucht in Russland [Text in Russian] 2 pts. Moskva, 1876. 8°. 1876.1

Verany, *Jean Baptiste* [— 1865] Aggiunto al catalogo de' pesci della Liguria. Atti Sci. Ital., 1846, 492–494. 1846.1

—— Mémoire sur le genre Notacanthus et descriptions d'une espèce nouvelle de la Méditerranée [*Notacanthus edwardsianus*] Ann. Soc. Lettres Sci. Arts Alpes-Maritimes, 1865, **1**, 237–240. 1865.1

Verany, *Jean Baptiste,* & **Filippi,** *Filippo de'.* *See* **Filippi & Verany.**

Verdun, *P.* Mycose rénale chez une carpe commune (*Cyprinus carpio* L.) Note préliminaire. C. R. Mém. Soc. Biol. Paris, 1903, **55**, 1313–1314. 1903.1

Verdun, *P.*, & **Herrmann,** *G.* *See* **Herrmann & Verdun.**

Verga, *D.* Descrizione di un nuovo Gobius frequente nelle lagune di Comacchio, con cenni anatomici sullo stesso. Atti 3. Riunione Sci. Ital., Firenze, 1841, 379. 1841.1

Verhoeven, *G. T.* Antwoorde op de vraeg: aen te wijzen de soorten van visschen die het gemeyn voorwerp zijn van de vangst, zoo op de kusten als in de rivieren van Vlaenderen; de misbruyken die in de visscherijen in swang zijn, te kennen te geven, met de middelen om dezelve te verbeteren. Gecroonde verhandeling. Mechelen, 1780. 4°. 1780.1

Mém. Cour. Acad. Bruxelles, 1780.

Verloop, *G. N.* Die Seefischerei in den Jahren 1870–1902; ihr Rückgang und die Mittel zu ihrer Hebung [Text in Dutch] Tijdschr. Nijverheid Landb. Nederl. Indie, Batavia, 1904, **69**, 22–52. 1904.1

—— Seefischerei neben dem indischen Ackerbau [Text in Dutch] Tijdschr. Nijverheid Landb. Nederl. Indie, Batavia, 1904, **69**, 320–336. 1904.2

Verney, (*Lady*). The shovel-nosed shark. Pop. Sci. Monthly, 1874, **4**, 65–68. fig. 1874.1

Vernon, *H. M.* The relations between marine animal and vegetable life. Mitth. Zool. Stat. Neapel, 1898, **13**, 341–425. — Proc. Roy. Soc. London, **63**, 155–161. 1898.1

—— Heat rigor in cold-blooded animals. Journ. Physiol., London, 1899, **24**, 239–287. 1899.1

—— The death temperature of certain marine organisms. Journ. Physiol., London, 1900, **25**, 131–136. 1900.1

Verri, *A.*, & **Angelis d'Ossat,** *G. de.* II. Contributo allo studio del Miocene nell' Umbria. Boll. Soc. Geol. Ital., 1900, 19. anno, 240–279. 1900.1

Verrill, *Addison Emory* [1839 —] The rules of zoological nomenclature . . . drawn up by . . . H. F. Strickland . . . with notes by A. E. Verrill. London, 1869. 8°. 1869.1

—— Marine fauna of Eastport, N. Y. Bull. Essex Inst., 1871, **3**, 2–6. 1871.1

—— On the food and habits of some of our marine fishes. Amer. Naturalist, 1871, **5**, 397–400. — Canadian Naturalist, **6**, 107–111. 1871.2

—— Report upon the invertebrate animals of Vineyard sound and the adjacent waters, with an account of the physical characteristics of the region. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 295–778. 1873.1

Mentions the occurrence of parasites on both fresh- and salt-water fishes. Details given refer to salt-water species.

—— The bluefish parasite. Forest & Stream, 1874, **3**, 148. 1874.1

—— Synopsis of the North American freshwater leeches. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 666–689. 1874.2

Outlines effects of leeches on fish.

—— Artificial propagation of the Spanish mackerel (*Cybium maculatum*) Amer. Journ. Sci., 1880, 3. ser. **20**, 251. 1880.1

—— Notice of the remarkable marine fauna occupying the outer banks off the southern coast of New England. Amer. Journ. Sci., 1881, 3. ser. **22**, 292–303. *Ibid.*, 1882, **24**, 360–371; 447–452. 1881.1

—— Nocturnal and diurnal changes in the colors of certain fishes and ot the squid (Loligo) with notes on their sleeping habits. Amer. Journ. Sci., 1897, 4. ser. **3**, 135–136. — Nature, **55**, 451. — Journ. Roy. Micr. Soc. London, 1897, 113. — Science, n. s. **5**, 427. — Nat. Rundschau, **12**, 290–291. — Nat. Wochenschr., **12**, 378–379. 1897.1

—— A remarkable instance of the death of fishes, at Bermuda, in 1901. Amer. Journ. Sci., 1901, 4. ser. **12**, 88. 1901.1

Mortality due to unusual cold.

—— Additions to the fauna of the Bermudas from the Yale expedition of 1901, with notes on other species. Trans. Connecticut Acad. Sci., 1903, **11**, 15–62. 1903.1

—— The Bermudas. Trans. Connecticut Acad. Sci., 1903, **11**, 413–956. figs. 1903.2

—— The Bermuda islands. An account of their scenery, climate, productions, physiography, natural history and geology. New Haven, 1902. 499 p. illust. 8°. 1902.1

"Reprinted from the Transactions of the Connecticut Academy of Sciences, vol. xi, with some changes."

Verveer, *Maurits.* Drie photographiën van de aldaar in 1867 gehouden tentoonstelling van visscherij-gereedschappen, enz., door Maurits Verveer. [n. pl., n. d.] fol.

Not seen; reference from Bosgoed's Bibliotheca ichthyologica, 1874.

Vescovi, *Pietro de.* Note preliminare sulle funzioni cromatiche dei pesci. Atti Istit. Venet., 1886, 6. ser. **4**, 535–546. 1886.1

—— Il ricambio dell' acqua nelle fosse nasali dei teleostei. Esperienze e ricerche. Boll. Soc. Nat. Napoli, 1889, **3**, 39–46. 1889.1

Vescovi, *P. de.*

—— Ricerche anatomo-fisiologiche intorno all' apparato uditivo dei teleostei. Atti Accad. Sci. Torino, 1891, **26**, 389–412. pl. 1891.1

—— Notizie sulla formazione di un nuova lago nella provincia di Roma, e considerazioni dal punto di vista della fauna lacustre. Boll. Soc. Rom. Stud. Zool., 1896, **5**, 55–71. 1896.1

Vetter, *Benjamin* [1848–1893] Untersuchungen zur vergleichenden Anatomie der Kiemen- und Kiefermusculatur der Fische. Jena. Zeitschr. Naturw., 1874, **8**, 405–458. 2 pls. *Ibid.*, 1878, **12**, 431–550. 2 pls. 1878.1

—— Die Fische aus dem lithographischen Schiefer im Dresdener Museum. Mitth. Min.-Geol. Præhist. Mus. Dresden, 1881, Heft 4, 1–118. 3 pls. Abstract in Neues Jahrb. Mineral., 1882, **2**, 405–408. 1881.1

Cœlacanthidæ, Pycnodontidæ, Macrosemiidæ, Pholidophoridæ, Aspidorhynchidæ, Pachycormidæ, Eugnathidæ and other ganoids including Coccolepis, Megalurus, etc. On the dentition of Asthenocormus, *see* Mem. Carnegie Mus., 1914, **6**, 416–418.

Vetter, *J.* Die Schifffahrt, Flötzerei und Fischerei auf dem Oberrhein (Schaffhausen-Basel) Karlsruhe, 1864. 219 p. 8°. 1864.1

Vetterlein, *Richard.* Zuchten von *Anabas africanus.* Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 253–254. fig. 1914.1

Vialleton, *Louis.* Développement post-embryonnaire du rein de l'ammocète. C. R. Acad. Sci. Paris, 1890, **111**, 399–401. 1890.1

—— Caractères lymphatiques de certaines veines chez quelques squales. C. R. Mém. Soc. Biol. Paris, 1902, **54**, 249–251. 1902.1

—— Les lymphatiques du tube digestif de la torpille (*Torpedo marmorata* Risso) Arch. Anat. Micr., 1902, **5**, 378–456. 2 pls. 1902.2

—— Sur le développement des muscles rouges chez quelques téléostéens. C. R. Assoc. Anat., Nancy, 1902, **4**, 47–53. fig. 1902.3

—— Etude sur le cœur des lamproies, *Petromyzon marinus* L., *P. planeri* Bloch, *Ammocœtes branchialis* L., avec quelques remarques sur l'anatomie comparée du cœur des cyclostomes. Arch. Anat. Micr., 1903, **6**, 283–384. 2 pls. 1903.1

—— Sur le développement des fentes branchiales de la torpille. C. R. Mém. Soc. Biol. Paris, 1906, **61**, 11–13. 1906.1

—— Un problème de l'évolution. La théorie de la récapitulation des formes ancestrales au cours du développement embryonnaire (loi biogénétique fondamentale de Haeckel) Montpellier, 1908. 244 p. 4 pls. 8°. 1908.1

References to *Petromyzon marinus*, p. 128–134; 142–148.

—— Sur les arcs viscéraux et leur rôle topographique chez les vertébrés. Arch. Anat. Micr. Paris, 1908, **10**, 1–122. 3 pls. & 8 figs. 1908.2

—— Eléments de morphologie des vertébrés. Anatomie et embryologie comparées, paléontologie et classification. Paris, 1911. xiv, 790 p. 304 figs. 8°. 1911.1

Viault, *François.* Recherches histologiques sur la structure des centres nerveux des plagiostomes. Arch. Zool. Expér. Gén., 1876, **5**, 441–528. 4 pls. 1876.1

Vibert, *Philip.* Salmon culture in Canada. Forest & Stream, 1876, **7**, 275. 1876.1

—— On sharks and other matters. Forest & Stream, 1877, **8**, 269. 1877.1

—— Gaspé fisheries. Forest & Stream, 1879, **12**, 442. 1879.1

—— Herring spawn. Forest & Stream, 1879, **12**, 85. 1879.2

—— Utility of fish-culture. Forest & Stream, 1879, **12**, 85. 1879.3

Vibraye, *P. de.* Observations sur la pisciculture. Bull. Soc. Acclim. Paris, 1854, **1**, 331–339. Also separate; Paris, 1854. 8°. 1854.1

—— Nouvelles observations sur la pisciculture. Bull. Soc. Acclim. Paris, 1855, **2**, 375–381. 1855.1

—— Compte rendu de divers essais pour la propagation des espèces utiles. Bull. Soc. Acclim. Paris, 1858, **5**, 270–271. 1858.1

Vicq-d'Azyr, *Félix* [1748–1794] Première mémoire pour servir à l'histoire anatomique des poissons. Mém. Acad. Sci. Paris, 1776, **7**. 1776.1

—— Mémoire sur la structure de l'organe de l'ouïe des oiseaux, comparé avec celui de l'homme, des quadrupèdes, des reptiles et des poissons. Paris, 1777. 8°. 1777.1

—— Des Herrn Vicq d'Azyr Abhandlung zur anatomischen Geschichte der Fische (In Schneider, J. G. Sammlung von anatomischen Aufsätzen und Bemerkungen zur Aufklärung der Fischkunde, etc. 1795. part i) 1795.1

—— Eloge de Buffon (In Le Buffon, G. L. Œuvres complètes, etc. 1842. vol. i. 8°) 1842.1

Victorin, *Johan Fredrik* [1831–1855] Zoologiska anteckningar under en resa i södra delarne af Caplandet åren 1853–1855, af J. F. Victorin. Ur den aflidnes papper samlade och ordnade af J. W. Grill. Handl. Svensk. Vet. Akad., 1858, **2**, no. 10. 62 p. pl. 1858.1

Vidakovich, *Victor.* *See* **Widakowich,** *V.*

Vidal, [*Jerome*] *Léon.* Education et conservation du loup (bar) [*Labrax lupus*] à l'état de stabulation dans des vivier de la ferme aquicole de Port-de-Bouc. Bull. Soc. Acclim. Paris, 1866, 2. sér. **3**, 637–642. 1866.1

—— Pisciculture marine. Etude sur le littoral français de la Méditerranée au point de vue piscicole. Marseille, 1866. 8°. 1866.2

—— Education et conservation du muge à l'état de stabulation dans les viviers de la ferme aquicole de Fort-de-Bouc. Bull. Soc. Acclim. Paris, 1867, 2. sér. **4**, 190–200. 1867.1

—— Pêche et pisciculture marine; considérations sur la pisciculture appliquée à la production des espèces marines comestibles. Marseille, 1867. 8°. 1867.2

—— De l'action du froid sur les poissons élevés en stabulation. Bull. Soc. Acclim. Paris, 1870, 2. sér. **7**, 578–592. 1870.1

—— Pisciculture marine. De l'action du froid sur les poissons en stabulation. Marseille, 1871. 8°. 1871.1

Vidal, *Luis Mariano.* Nota geologica y paleontologica sobre el Jurasico superior de la provincia de Lérida. Bul. Inst. Geol. Españ. Madrid, 1915. 43 p. 6 pls. & 19 figs. 1915.1

Undina, Ætalion, Hybodus and Megalurus.

Vidal, *Luis Mariano,* & **Depéret,** *Charles.* Contribución al estudio del Oligoceno en Cataluña. Mem. Real Acad. Cienc. Barcelona, 1906, **5**, 311–345. 1906.1

Text in Spanish and French. Some fossil teleosts are mentioned.

Vieira, *Lopes.* Contribution à l'étude de l'ichthyologie maritime. Ann. Sci. Nat. Porto, 1894, **1**, 137–139. pl. 1894.1

—— Contribution à l'étude des poissons d'eau douce du Portugal, d'après la collection du musée de zoologie de l'Université de Coimbra, et catalogue des poissons des fleuves et rivières du Portugal conservés au musée. Ann. Sci. Nat. Porto, 1894, **1**, 1–18; 53. 1894.2

—— Note sur le *Lepidopus argenteus* Bonat., vel *L. caudatus* Günth. Ann. Sci. Nat. Porto, 1894, **1**, 165–167. pl. 1894.3

—— Note sur un jeune individu de *Selache maxima.* Ann. Sci. Nat. Porto, 1894, **5**, 137. pl. 1894.4

—— Sur les mœurs du *Petromyzon marinus* Linn., et du *Petromyzon fluviatilis* Linn. Ann. Sci. Nat. Porto, 1894, **1**, 79–83. pl. 1894.5

—— Le maintien de jeunes *Petromyzon marinus* dans un aquarium d'eau douce. Ann. Sci. Nat. Porto, 1895, **2**, 14–16. 1895.1

—— *Cobitis barbatula* L. Ann. Sci. Nat. Porto, 1896, **3**, 54. 1896.1

—— Catalogo dos peixes de Portugal em colleção no Museu de Zoologia da Universidade de Coimbra. Ann. Sci. Nat. Porto, 1897, **4**, 62–68; 136–142; 170–176. 1897.1

—— Catalogo dos peixes de Portugal em collecção no Museu de Zoologia da Universidade de Coimbra. Continuado. Ann. Sci. Nat. Porto, 1898, **5**, 65–91. 1898.1

—— Una especie de peixe nova para a fauna oceanica de Portugal. Ann. Sci. Nat. Porto, 1898, **5**, 119–120. 1898.2

—— Catalogo dos peixes de Portugal em collecção no Museu de Zoologia da Universidade de Coimbra. Ann. Sci. Nat. Porto, 1900, **6**, 152–165. 1900.1

—— Catalogo dos peixes de Portugal em collecção no Museu de Zoologia da Universidade de Coimbra. Conclusão. Ann. Sci. Nat. Porto, 1901, **7**, 139–159. 1901.1

Viennot, *T. C.* La pêche du hareng dans le Royaume-Uni. Bull. Soc. Imp. Zool. Acclim., 1863, **10**, 580–582. 1863.1

Vigliarolo, *Giovanni.* Monografia dei Pristis fossili con la descrizione di una nuova specie del calcare miocenico di Lecce. Atti Real. Accad. Sci. Fis. Mat., Napoli, 1891, 2. ser, **4**, append. no. 3. 28 p. pl. 1891.1

Vignal, *William Victor Montgomery.* Note sur le système ganglionnaire du cœur des poissons osseux. C. R. Mém. Soc. Biol. Paris, 1880, 6. sér. **5**, 196–198. 1880.1

—— Note sur l'anatomie des centres nerveux du mole, *Orthagoriscus mola.* Arch. Zool. Expér. Gén., 1881, **9**, 370–386. pl. 1881.1

—— Note sur le système ganglionnaire des poissons cartilagineux. Arch. Zool. Expér. Gén., 1883, 2. sér. **1** (Notes et Revue), xvii–xx. 1883.1

—— Sur les lobes accessoires de la moelle du mole (*Orthagoriscus mola*) C. R. Mém. Soc. Biol., 1886, 8. sér. **3**, 144–146. figs. 1886.1

Viguier, *C.* Réglage de la température dans les appareils du laboratoire pour la pisciculture et l'élevage des animaux marins. Arch. Zool. Expér. Gén., 1904, 4. sér. **2** (Notes et Revue), clvii–clxvi. fig. 1904.1

Vilaró, *J.* [1838–1904] Apuntes de zoologia. Habana, 1885. 8°. 1885.1

—— Algo sobre peces de Cuba. Anal. Acad. Cienc. Med. Fis. Nat. Habana, 1890, **27**, 395–397; 470–474; 538–542; 666–667. *Ibid.*, 1891, **28**, 611–623; 677–684; 727–737. *Ibid.*, 1892, **29**, 23–29; 55–64; 130–135; 171–179; 213–224; 252–259; 310–317; 349–356; 390–400; 469–475; 500–511. 1890.1

Villada, *Manuel M.* Una vida consagrada á la ciencia y al estricto cumplimiento del deber. La Naturaleza, 1912, 3. ser. **1**, lxix–lxxiii. portr. 1912.1

Biographical sketch of Eugenio Dugès.

Villada, *Manuel M.*, **Gandara,** *Guillermo,* **Urbina,** *Manuel,* & **Degoutin,** *N.* Breve reseña de una excursión escolar à la bara de Nautla. Año de 1908. La Naturaleza, México, 1912, 3. ser. **1**, 153–164. 8 pls. & 3 figs. 1912.1

Villars, *Briant.* La pisciculture en Espagne. Bull. Soc. Acclim. Paris, 1885, 4. sér. **32**, 457–459. 1885.1

Villatte des Prugnes, *Robert.* Faune de l'arrondissement de Montluçon. Les poissons. Montluçon, 1897. 52 p. 16°. 1897.1

—— La pêche du poisson blanc, la blanchaille. Paris, 1911. 102 p. 12°. 1911.1

Villeneuve, —— Anmerkungen betreffend einem Fisch, welchen man für den Zitterfisch [Torpedo] hält. Hamburg. Magaz., 1763, **26**, 545–552. 1763.1

Villet, —— Zoological Museum. A description of a . . . collection of . . . specimens in every class of natural history . . . formed at the cape of Good Hope . . . by . . . M. Villet. London, 1825 (?) 36 p. 8°. 1825.1

Another edition, London, 1828. 24 p. 8°. Sale catalogue with manuscript notes of the prices paid for many of the lots.

Villumsen, *P.* *See* **Willumsen,** *Peter Jonassen.*

Vinassa de Regny, *Paolo Eugenio* [1871 —] Pesci neogenici del Bolognese. Rivist. Ital. Paleont., 1899, **5**, 79–84. pl. 1899.1

—— Paleontologia. Milano, 1902. xi, 510 p. illust. 8° (Manuali Hoepli) 1902.1

Vincent, *Eugene.* Causes of disease in young salmonoids. Bull. U. S. Fish Comm. 1908 (1910), **27**, pt. 2, 907–916. 1910.1

—— Devices for use in fish hatcheries and aquaria. Bull. U. S. Fish Comm. 1908 (1910), **27**, pt. 2, 1025–1035. 1910.2

Vincent, *Gérard.* Note sur la faune bruxellienne des environs de Bruxelles. Ann. Soc. Malac. Belgique, 1875, **10** (*Mém.*), 23–32. 1875.1

Vincent, *Gérard,* & **Rutot,** *A.* Coup d'œil sur l'état actuel d'avancement des connaissances géologiques relatives aux terrains tertiaires de la Belgique. Ann. Soc. Géol. Belgique, 1879, **6** (*Mém.*), 69–155. 1879.1

Contains lists of fossil fishes from Tertiary horizons in Belgium.

Vincent, *P.* Extrait d'un rapport adressé au ministre de l'agriculture sur l'organisation d'un établissement destiné à la reproduction artificielle de l'alose. Bull. Soc. Centr. Aquicult. Pêche, 1890, **2**, 87. 1890.1

Vincent, *Stella B.* Literature for 1913 on the behavior of vertebrates. Journ. Animal Behav., 1914, **4**, 414–438. 1914.1

Vincent, *Swale.* The suprarenal capsules in the lower vertebrates. Proc.

Birmingham Nat. Hist. Phil. Soc., 1896, **10**, 1–25. 2 pls. 1896.1

—— On the morphology and physiology of the suprarenal capsules in fishes. Anat. Anz., 1897, **13**, 39–48. 1897.1

—— Contributions to the comparative anatomy and histology of the suprarenal capsules. The suprarenal bodies in fishes, and their relation to the so-called head-kidney. Trans. Zool. Soc. London, 1898, **14**, 41–84. 6 pls. 1898.1

—— The comparative histology of the suprarenal capsules. Intern. Journ. Anat. Physiol., 1898, **15**, 282–303. 3 pls. 1898.2

—— The effects of extirpation of the suprarenal bodies of the eel (*Anguilla anguilla*) Proc. Roy. Soc. London, 1898, 52; 354–356. 1898.3

—— The nature of the suprarenal body of the eel and the effects of its removal. Journ. Anat. Physiol., London, 1898, **22**, xlix. 1898.4

—— On the suprarenal capsules and the lymphoid tissue of teleostean fishes. Anat. Anz., 1898, **14**, 151–152. 1898.5

—— The ductless glands. Rept. Brit. Assoc. Adv. Sci., 77. meet., 1907, 400–401. 1907.1

Vincent, *Swale,* & **Barnes,** *A. Stanley.* On the structure of the red glands in the swim-bladder of certain fishes. With a note on their possible function. Journ. Anat. Physiol., London, 1896, 2. ser. **10**, 545–558. pl. 1896.1

Vincent, *Swale,* & **Collinge,** *Walter E.* *See* **Collinge** & **Vincent.**

Vincent, *Swale,* & **Thompson,** *Florence D.* The islets of Langerhans and the zymogenous tubules in the vertebrate pancreas, with special reference to the pancreas of the lower vertebrates. Trans. Roy. Soc. Canada, 1907, 3. ser. **1**, 275–286. 2 pls. 1907.1

—— The islets of Langerhans in the elasmobranch fishes. Journ. Anat. Physiol., London, 1907, **35**, xlv–xlvi. 1907.2

Vincenzi, *L.* Sull' origine reale del nervo ipoglosso. Atti R. Accad. Sci. Torino, 1885, **20**, 798–806. 1885.1

Vincenzo, *C. G.* Nota sopra la terminazione delle fibre nervose motrici, ne' muscoli striati delle torpedini condizionati col doppio cloruro d' oro e cadmio. Rendic. Accad. Bologne, 1883, 18–22. 1883.1

Vinciguerra, *Decio.* Appunti ittiologici sulle collezioni del Museo Civico di Genova, 1879–85. 1879.1

i. Enumerazione di alcune specie di pesci raccolti in Sumatra dal Dottore O. Beccari nell' anno 1878. Ann. Mus. Civ. Storia Nat. Genova, 1879, **14**, 384–397.

ii. Intorno ai Macrurus del golfo di Genova. Ibid., 609–627. pl.

iii. Intorno ai Blennioidi del golfo di Genova. *Ibid.*, 1880, **15**, 430–453. 4 figs.

iv. Prima contribuzione alla fauna ittiologica dell' isola di Borneo. Siluroidei raccolti durante il viaggio dei Signori M. G. Doria e Dr. O. Beccari. *Ibid.*, 1880, **16**, 161–182. 7 figs.

v. Enumerazione di alcuni pesci raccolti a Minhla sull' Irrawaddi dal Capitano Cav. G. B. Comotto. *Ibid.*, 1883, **18**, 651–660.

vi. Enumerazione di alcuni pesci raccolti alle foci del Gange e dell' Irrawaddi dal Capitano Gerolamo Ansaldo. *Ibid.*, 1885, 2. ser. **2**, 82–96.

vii. Sopra alcuni pesci nuovi pel golfo di Genova. *Ibid.*, 446–475.

—— Le emimetamorfosi dei pesci; cenni bibliografici. Boll. Scient. Pavia, 1880, **2**, 87–95. 1880.1

—— L' Esposizione Internazionale di Pesca tenuta in Berlino nel 1880. Ann. Mus. Civ. Storia Nat. Genova, 1880, **16**, 348–392. 1880.2

—— Le crociere dell' yacht "Corsaro" del Capitano armatore Enrico d'Albertis. III. Pesci. Ann. Mus. Civ. Storia Nat. Genova, 1883, **18**, 607–620. 1883.1

—— Risultati ittiologici delle crociere del "Violante." Ann. Mus. Civ. Storia Nat. Genova, 1883, **18**, 465–590. 3 pls. Also separate; Genova, 1883. 1883.2

—— Spedizione italiana nell' Africa equatoriale. Risultati zoologici. Ann. Mus. Civ. Storia Nat. Genova, 1883, 691–703. 6 figs. — Mem. Soc. Geogr. Ital., **2**, pt. 3, 3–15. 1883.3

Pesci d' acqua dolce.

—— Materiali per lo studio della fauna Tunisina raccolti da G. e L. Doria [Pesci] Ann. Mus. Civ. Storia Nat. Genova, 1884, **20**, 393–445. 4 figs. 1884.1

—— Viaggio di Leonardo Fea in Birmania e regioni vicine [Pesci] Ann. Mus. Civ. Storia Nat. Genova, 1889, 2. ser. **9**, 129–362. 5 pls. & 23 figs. Also separate; Genova, 1890. 234 p. 5 col. pls. map. 8°. 1889.1

—— Appunti intorno ad alcune collezioni ittiologiche recentemente pervenute al Museo Zoologica della R.

Vinciguerra, *D.*
Università di Roma. II. Pesci di las Palmas (Isole Canarie) Roma, 1890. 1890.1

—— Intorno ad alcune specie de pesci raccolte dal dottore E. Stassano presso la costa occidentale del Sahara. Annal. Agricolt. Roma, 1890, 61–103. 1890.2

—— Di alcuni pesci raccolti nel paese dei Somali dall' Ingr. L. Brichetti-Robecchi. Ann. Mus. Civ. Storia Nat. Genova, 1893, 2. ser. **13**, 448–455. 1893.1

—— Catalogo dei pesci delle isole Canarie. Atti Soc. Ital. Sci. Nat., Milan, 1893, **34**, 295–334. 1893.2

—— Sulla introduzione del salmone di California nel lago di Castel Gandolfo. Boll. Soc. Romana Zool., 1893, **2**, 253–264. 1893.3

—— Sull' appendici branchiali nelle specie Mediterranee del genere Dentex. Boll. Soc. Romana Zool., 1893, **2**, 50–69. 1893.4

—— Sulla presenza di un ghiozzo d' acqua dolce nei dintorni di Roma. Boll. Soc. Romana Zool., 1893, **2**, 212–222. 1893.5

—— I Coregoni e la loro introduzione in Italia. Eco dei Camp e dei Boschi, 1895, **2**, no. 2. 1895.1

—— Esplorazione del Giuba e dei suoi affluenti compiuta dal Capitano V. Bottego durante gli anni 1892–93 sotto gli auspicii della Società Geographica Italiana [Pesci] Ann. Mus. Civ. Storia Nat. Genova, 1895, 2. ser. **15**, 19–60. pl. 1895.2

—— Relazione intorno alla pesca di acqua dolce e di mare in Sicilia e ai modi per aumentare il prodotto. Boll. Not. Agrar. Minist. Agricult., 1896, **18**, 105–128. 1896.1

—— Ulteriori notizie sull' introduzione del salmone di California nel lago di Castel Gandolfo. Boll. Soc. Romana Zool., 1896, **5**, 11–20. 1896.2

—— Pesci raccolti da Don Eugenio dei Principi Ruspoli durante l' ultimo suo viaggio nelle regioni dei Somali e dei Galla; nota. Ann. Mus. Civ. Storia Nat. Genova, 1897, 2. ser. **17**, 24–31. 1897.1

—— Pesci raccolti dal Cap. V. Bottego durante la sua seconda spedizione nelle regioni dei Somali e dei Galla; nota. Ann. Mus. Civ. Storia Nat. Genova, 1897, 2. ser. **17**, 343–364. 1897.2

—— I pesci dell' ultima spedizione del Capitano Bottego. Ann. Mus. Civ. Storia Nat. Genova, 1898, 2. ser. **19**, 240–261. 1898.1

—— Il *Cottus gobio* nel bacino del Tevere. Boll. Soc. Zool. Ital., 1900, **1**, 56–57. 1900.1

—— Sulla presenza del *Salmo macrostigma* A. Dum. nelle paludi pontine. Monit. Zool. Ital., Firenze, 1902, **13** (*Suppl.*), 27–28. 1902.1

—— Ueber die geographische Verbreitung der Süsswasserfische Italiens. Stenogr. Protok. Verh. Internat. Fisch. Kongr. Wien, 1905, 111–112. 1905.1

—— Sur l'opportunité d'une exploration océanographique de la Méditerranée dans l'intérêt des pêches maritimes. Bull. Inst. Océanogr., Monaco, 1909, **138**, 10. 1909.1

—— Missione per la frontiera Italo-Etiopica sotto il comando del Capitano Carlo Citerni [Pesci] Ann. Mus. Civ. Storia Nat. Genova, 1913, **45**, 293–303. 1913.1

Vinciguerra, *Decio,* **Besana,** *G.*, **Burguières,** *E.*, **Genazzini,** *E.*, & **Gervasoni,** *T.* Relazione della commissione di inchiesta sulla pesca nel lago di Como. Acquicolt. Lombarda, Milano, 1902, **4**. 1902.1

Vinciguerra, *Decio,* & **Bettoni,** *E.* *See* **Bettoni & Vinciguerra.**

Vinson, *Auguste.* De l'acclimatation du gourami [*Osphromenus olfax*] à l'île de la Réunion, et des moyens d'acclimater ce poisson en Algérie et dans le midi de la France. Bull. Soc. Acclim. Paris, 1861, **8**, 509–514; 541–546. 1861.1

Vinycomb, *John.* Fictitious and symbolic creatures in art, etc. London, 1906. 276 p. illust. 8°. 1906.1

The sea-horse, p. 270–274. *See also* references under Osburn, R. C., 1915.1, *supra.*

Violette, *A.* Les échelles à poissons. Description et théorie sommaires; conditions hydrauliques de leur établissement; conditions légales à imposer. Bull. Soc. Centrale Aquicult. Pêche, 1908, **20**, 65–86; 97–113. 1908.1

Vion, *R.* De la préhension de la nourriture chez les animaux aquatiques. Bull. Soc. Linn. Nord France, Amiens, 1877, **3**, 226–229. 1877.1

—— Les poissons bizarres. Bull. Soc. Linn. Nord France, Amiens, 1877, **3**, 271–276. 1877.2

—— Acclimatation du saumon en Nouvelle-Zélande. Bull. Soc. Linn. Nord France, Amiens, 1879, **4**, 224. 1879.1

—— La maladie du saumon. Bull. Soc. Linn. Nord France, Amiens, 1879, **4**, 94–95; 230–232. 1879.2

—— La pisciculture aux Etats-Unis. Bull. Soc. Linn. Nord France, Amiens, 1881, **5**, 110. 1881.1

—— La vessie natatoire des poissons. Bull. Soc. Linn. Nord France, Amiens, 1881, **5**, 110–111. 1881.2

—— La nourriture des poissons. Bull. Soc. Linn. Nord France, Amiens, 1883, **6**, 185. 1883.1

Vipan, *J. A. M.* [On the nesting of a South American siluroid fish (*Callichthys littoralis*) in this country; a letter to Dr. Sclater] Proc. Zool. Soc. London, 1886, 330–331. 1886.1

—— Malaria and the "millions" fish (*Girardinus pœciloides*) Proc. Zool. Soc. London, 1910, 146–147. — Blätt. Aquar.-Terrar. Kunde, 1910, **21**, 797. 1910.1

Virchow, *Hans.* Beiträge zur vergleichenden Anatomie des Auges. Berlin, 1882. 1882.1

—— Ueber die Glaskörper- und Netzhautgefässe des Aales. Morphol. Jahrb., 1882, **7**, 573–590. pl. 1882.2

—— Ueber die Augengefässe der Selachier und die Verbindung derselben mit den Kopfgefässen. Arch. Anat. Physiol. (*Anat. Abth.*), 1890, 169–173. — Sitzber. Naturf. Freunde Berlin, 1893, 33–37. 1890.1

—— Ueber die Spritzlochkieme der Selachier. Archiv Anat. Physiol. (*Phys. Abth.*), 1890, 177–182. — Sitzber. Naturf. Freunde Berlin, 1893, 31–33. 1890.2

—— Ueber Spritzlochkieme von Acipenser und ihre Verbindung mit den Kopfgefässen. Arch. Anat. Physiol. (*Phys. Abth.*), 1890, 586–588. 1890.3

—— Das Dotterorgan der Wirbelthiere. Zeitschr. Wiss. Zool., 1892, **53** (*Suppl.*), 161–206. pl. 1892.1

—— [Einige embryologische und angiologische Erfahrungen über nordamerikanische Wirbelthiere] Sitzber. Naturf. Freunde Berlin, 1894, 33–44. 1894.1

Contains observations on *Lepidosteus osseus.*

—— Ueber das Dottersyncytium und den Keimhautrand der Salmoniden. Verh. Anat. Ges., Anat. Anz., 1894, **10**, 66–77. figs. 1894.2

—— Ueber den Keimhautrand der Salmoniden. Verh. Anat. Ges., Anat. Anz., 1895, **11**, 201–218. figs. 1895.1

—— [Ueber die Entwicklung des Gefässbezirkes auf dem Selachier-Dottersacke] Sitzber. Ges. Naturf. Freunde Berlin, 1895, 98–103. 1895.2

—— Ueber die Schwanzbildung bei Selachiern. Sitzber. Ges. Naturf. Freunde Berlin, 1895, 105–120. 1895.3

—— Das Ei von *Amia calva* während der Furchung. Verh. Anat. Ges., Anat. Anz., 1896, **12**, 108. 1896.1

—— Ueber Furchungsbilder von *Amia calva* unter Vorlegung von Photographien. Sitzber. Ges. Naturf. Freunde Berlin, 1896, 31–42. 1896.2

—— Ueber Dottersacknaht und primären Kreislauf bei Scyllium. Sitzber. Ges. Naturf. Freunde Berlin, 1897, 49–59. 1897.1

—— Unterschiede im Syncytium der Selachier nach Ort, Zeit und Genus. Sitzber. Ges. Naturf. Freunde Berlin, 1897, 91–110. 1897.2

—— Ueber Blutinseln und Gefässbezirk von *Torpedo ocellata.* Sitzber. Ges. Naturf. Freunde Berlin, 1898, 118–135. 1898.1

—— Ueber Oberflächenbilder von Selachierkeimen und Mesodermursprungszone. Verh. Anat. Ges., Anat. Anz., 1898, **14**, 43–49. 4 figs. 1898.2

Virchow, *Rudolf Ludwig Carl* [1821–1902] Ueber die Dotterplättchen bei Fischen und Amphibien. Zeitschr. Wiss. Zool., 1853, **4**, 236–241. 1853.1

Virchow, *Rudolf,* & **Hensen,** —— Ueber die Markirung von Lachsen. Circul. Deutsch. Fischerei Ver., 1872, 171–177. 1872.1

Viré, *Armand.* Sur quelques expériences effectuées au laboratoire des catacombes du Muséum d'Histoire Naturelle. C. R. Acad. Sci. Paris, 1904, **138**, 706–708. 1904.1

Virey, *Jules Joseph* [1776–1847] Histoire des mœurs et de l'instinct des ani-

Virey, *J. J.* maux, avec les distributions méthodiques et naturelles de toutes leurs classes, etc. 2 vols. Paris, 1822. 8°. 1822.1

—— Philosophie de l'histoire naturelle, ou phénomènes de l'organisation des animaux et des végétaux. Paris, 1835. xvi, 512 p. 8°. 1835.1

Vis, *Charles W. de. See* **De Vis,** *C. W.*

Visiani, *Roberto de* [1801–1878] Nota di un vivajo di pesci marini nel lago dolce di Arquà. Atti Istit. Venet., 1865, 3. ser. **11**, 467–471. *Ibid.*, 1866, **12**, 701–704. 1865.1

—— Ueber das Vorkommen von Meerfischen im Süsswassersee von Arquà. Zool. Garten, 1866, 7. Jahrg., 276–277. 1866.1

Visser, *C. de.* Les poissons exotiques. La Nature, 1912, **40**, pt. 2, 401–403. 4 figs. 1912.1

Viviani, *Domenico* [1772–1840] Phosphorescentia maris. Quatuordecim lucescentium animalculorum novis speciebus illustrata . . . Accedit novi cujusdam generis, e molluscorum familia descriptio et anatomes. Genuæ, 1805. 17 p. illust. fol. 1805.1

Vlès, *F.*, & **Alluaud,** *C. See* **Alluaud** & **Vlès.**

Vœlkel, *Paul.* L'établissement de Nikolsk pour l'éducation de poissons de luxe, traduit du Russe. Bull. Soc. Acclim. Paris, 1870, 2. ser. **7**, 508–517. 1870.1

Völker, *Heinrich.* Apparat zur Demonstration der Steuerbewegung der Fische. Monatsh. Nat. Unterr., 1911, **4**, 157–158. 2 figs. 1911.1

Völter, —— Ueber *Semionotus bergeri* Ag. Jahresh. Ver. Vaterl. Natur. Württemberg, 1863, **19**, 57–58. 1863.1

Völtzkow, *Alfred* [1860 —] Ein Beitrag zur Kenntnis der Aalentwicklung. Zool. Anz., 1890, **13**, 314–315. 1890.1

—— West-Madagascar auf Grund eigener Anschauung. Verh. Ges. Erdk. Berlin, 1896, **23**, 170–184. 1896.1

Vogel, *Aloys.* Literar-historische Notizen über den mittelalterlichen Gelehrten Vincenz von Beauvais. Inaug. Dissert. Freiburg-i.-Br., 1843. 1843.1

Vogel, *Julius.* Exportation of salmon ova to New Zealand in 1876. Rept. U. S. Fish Comm. 1875–76 (1878), **4**, 968. 1878.1

Vogel, *P.* Ausführliches Lehrbuch der Teichwirtschaft. Bautzen, 1898. 549 p. 157 figs. 1898.1

Behandelt insbesondere die Forellen und Karpfenzucht.

—— Die Teichwirtschaft des Königreichs Böhmen sowie der anderen Länder Oesterreich-Ungarns. Bautzen, 1909. 531 p. 8°. 1909.1

Vogel, *Richard.* Die Entwickelung des Schultergürtels und des Brustflossen Skelettes der Forelle (*Trutta fario*) Jena. Zeitschr. Naturw., 1909, **45**, 499–544. 5 pls. & 5 figs. 1909.1

Vogel, *Walther.* Der Aal; Aufzucht und wirthschaftliche Bedeutung. Nürnberg, 1892. 8°. 1892.1

—— Der Aalfang im Elbegebiet. Allgem. Fischerei Zeitg., 1893, **18**, 245–247. 1893.1

Vogt, *Carl Christoph* [1817–1895] Embryologie des salmones. Neuchâtel, 1842. vi, 326 p. & atlas of 7 col. pls. obl. fol. 1842.1

Most of the plates are by Vogt, a few by A. Sonrel after sketches by Vogt, each accompanied by an outline plate giving the lettering. The explanation of the plates is in three parallel columns, in French, German and English.

This volume was published as the second part of L. Agassiz's Histoire naturelle des poissons d'eau douce de l'Europe centrale. Notice in Amer. Journ. Sci., **45**, 211–214.

—— Quelques points de l'embryologie des poissons. Congr. Scient. France, 1842, 182–186. 1842.2

—— Quelques observations sur les caractères qui servent à la classification des poissons ganoïdes. Ann. Sci. Nat. (*Zool.*), 1845, 3. sér. **4**, 53–68. 1845.1

—— Ocean und Mittelmeer, Reisebriefe. 2 vols. Frankfurt-a.-M., 1846. 8°. 1846.1

—— Zoologische Briefe; Naturgeschichte der lebenden und untergegangen Thiere. 2 vols. Frankfurt-a.-M., 1851. figs. 8°. 1851.1

Fische, vol. ii, p. 1–190.

—— Ueber die Schleimkanäle der Fische. Zeitschr. Wiss. Zool., 1856, **7**, 328–329. 1856.1

—— Die künstliche Fischzucht. Leipzig, 1859. illust. 8°. 1859.1

Appeared under the title "Unsere Zeit," in Jahrbuch zum Conversations-Lexikon, 1857,

vol. i, p. 98–116. A second edition was published at Leipzig in 1875.

—— Die Laichzeit und Brutdauer unserer wichtigsten Süsswasserfische. Abstract in Aus der Heimath (Rossmässler), 1860, 2. Jahrg., 239–240. 1860.1

—— La piscicoltura. Prima versione dal Tedesco del Sig. Dottore Innocenzo Regazzoni. Como, 1865. 185 p. 8°. 1865.1

—— Die künstliche Fischzucht. 2. Auflage. Leipzig, 1875. 195 p. illust. 8°. 1875.1

—— Ein Verbrecher unter den Fischen [*Polyacanthus viridiauratus*] Gartenlaube, 1875, no. 31, 546–547. 1875.2

—— Recherches cotières. Premier mémoire. De la famille des philichthydes et en particulier du léposphile des labres. Second mémoire. Sur quelques copépodes parasites à males pygmées habitant les poissons. Première section. De la famille des lernæopodides. Seconde section. De la famille des chondracanthides. Mém. Inst. Nat. Genève, 1877, **13**, 1–104. 6 pls. 1877.1

—— Notice sur un hareng hermaphrodite. Arch. Ital. Biol., 1882, **3**, 255–258. 1882.1

—— Sur l'ovaire des jeunes vérons (*Phoxinus varius*) Arch. Ital. Biol., 1882, **3**, 241–254. pl. 1882.2

Vogt, *Carl Christoph,* & **Agassiz,** *Louis* [*J. R.*] *See* **Agassiz** & **Vogt.**

Vogt, *Carl Christoph,* & **Pappenheim,** *S.* Recherches sur l'anatomie comparée des organes de la génération chez les animaux vertébrés. Ann. Sci. Nat. (*Zool.*), 1859, 4. sér. **11**, 331–369. pl. *Ibid.*, 1860, **12**, 100–131. 2 pls. 1859.1

Vogt, *Carl Christoph,* & **Yung,** *Emile.* Traité d'anatomie comparée. 2 vols. Paris, 1888–94. illust. 8°. 1888.1

—— Lehrbuch der vergleichenden Anatomie. 2 vols. Braunschweig, 1885–94. illust. 8°. 1885.1

Vohl, *H.* Note sur le guano de poisson de Norwège. Répert. Chim. Appliqué, 1863, **5**, 329–330. 1863.1

Voigt, *E.* (*editor*) Ecbasis captivi, das älteste Thierepos des Mittelalters. Strasburg, 1875. 8°. 1875.1

The original text, by an anonymous author, was composed about 940 A. D.

Voigt, *F.* Ueber den Fischereibetrieb auf der Unter-Elbe. Hamburg, 1870. 27 p. 8°. 1870.1

—— Bemerkungen über die in Herrn Dr. Hensen's Werk "über die Befischung der deutschen Küste" (Berlin, 1874) mitgetheilte Zahl der die See- und Küstenfischerei von der Elbe aus Betreibende. Circul. Deutsch. Fischerei Ver. 1877 (1878), no. 4, 125–126. 1878.1

—— Die Vereinigung der Seefischer auf der Insel Finkenwärder bei Hamburg zur Versicherung ihrer Fahrzeuge gegen Seegefahr. Circul. Deutsch. Fischerei Ver. 1877 (1878), no. 4, 113–115. 1878.2

—— Die Weserfischerei der Oldenburger Fischer. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 311–312. 1879.1

Voigt, *Friedrich Siegmund* [1781–1850] Lehrbuch der Zoölogie. 6 vols. Stuttgart, 1835–42. Text & atlas of 22 pls. 4°. 1835.1

Fische, vol. iii.

Voigt, *Georg.* Die Wiederbelebung des klassischen Altertums. 2 vols. 3. ed. Berlin, 1893. 1893.1

Voigt, *Max* [1877 —] Beiträge zur Kenntnis des Vorkommens von Fischparasiten in den Plöner Gewässern. Forschungsber. Biol. Stat. Plön. Stuttgart, 1903, **10**, 94–99. 1903.1

Voit, *C.* Karl Gegenbaur. Sitzber. Bayer. Akad. Wiss. (math.-phys. Cl.), 1904, 252–259. 1904.1

Voit, *Carl.* Ueber die in den Schuppen und der Schwimmblase von Fischen vorkommenden irisirenden Krystalle. Zeitschr. Wiss. Zool., 1865, **15**, 515–521. 1865.1

Volborth, *Alexander von* [1800–1876] [Vorkommen von Conodonten in England und Schweden] Neues Jahrb. Mineral., 1861, 464–465. 1861.1

Volger, *Otto.* *Teleosteus primævus* Volger. Erste Spur eines Grätenfisches im Uebergangsgebirge aus dem rheinischen Dachschiefer von Caub. 1. Bericht Offenbach. Ver. Naturk., 1860, 37–57. pl. 1860.1

Vollams, *S. E.* On the mud-fish (*Neochanna apoda*) an extract from a letter. Trans. Proc. New Zealand Inst., 1873, **5**, 456–457. 1873.1

Volmerange, —— Repeuplement des cours d'eau en salmonides. Boîte-

Volmerange.
filtre. Bull. Soc. Centr. Aquicult. Pêche, 1905, **17**, 294–296. 1905.1

Volpi, —— Verzeichnis der Fische und Krebse des adriatischen Meerbusens. Triest, 1796. 12°. 1796.1

Volta, *Alessandro.* Sur l'électricité dite animale. Annal. Chimie, 1797, **23**, 276–315. — Phil. Mag., **4**, 59–68; 163–171; 306–312. 1797.1

—— De l'électricité dite galvanique. Annal. Chimie, 1801, **11**, 225–256. — Annal. Physik (Gilbert), 1801, **10**, 421–449. *Ibid.*, 1802, **12**, 497–520. *Ibid.*, 1805, **14**, 257–265. 1801.1

—— Versuche und Beobachtungen die über die Zitterrochen anzustellen wären. Journ. Chemie Physik (Gehlen), 1807, **4**, 612–659. 1807.1

Volta, *Giovanni Serafino.* Prospetto del Museo Bellisomiano classificato e compendiosamente descritto. Pavia, 1787. 1787.1

A fossil fish from Monte Bolca is described at p. 60.

—— Osservazioni intorno alla fisica costituzione del lago di Garda ed intorno ai pesci ed alle piante che in esso vi allignano. Opuscoli Scelti, Milano, 1789, **12**. 1789.1

—— Sui pesci di Bolca [Various articles contributed to the Giornale di Mantova for the years 1792, 1793, 1794] 1792.1

Not seen; reference from Vittorio dal Nero.

—— Dei pesci fossili del Veronese. Lettera al Sig. Ab. Testa. Giornale Fisico-medico, ossia Raccolta d' Osservazioni ecc., del Sig. Dott. Luigi Brugnatelli. Pavia, 1794. 1794.1

Not seen; title from V. dal Nero.

—— Dei pesci fossili del Veronese. Lettera indirizzatta al Sig. Abate Don Domenico Testa. Con un' appendice. Mantova, 1794. 1794.2

"L'appendice contiene due altre lettere dell' autore a Domenico Testa e le risposte di Domenico Testa a G. S. Volta. Parla di quest' opuscolo Alberto Fortis nel suo periodico: Il Genio Letterario d' Europa, tomo **14**, p. 123. Venezia, agosto, 1794."— Vittorio dal Nero, Bibliografia, etc., 1911.

—— Ittiolitologia veronese del museo Bozziano ora annesso a quello del Conte Giovambattista Gazola e di altri gabinetti di fossili Veronesi con la versione latina. 2 vols. Verona, 1796–1809. Text and atlas of 76 pls. fol. 1796.1

Voltolina, *V.* Osservazioni intorno alla semina delle anguille nelle valli salse. Neptunia, Venezia, 1902, **18**, 174–176. 1902.1

Volz, *Walter.* Neue Fische aus Sumatra. Reise von Dr. W. Volz. Vorläufige Mittheilung. Zool. Anz., 1903, **26**, 553–559. 1903.1

—— Fische von Sumatra [*Ophichthys bleekeri*, n. sp.] (Reise von Dr. Walter Volz) Zool. Jahrb. (*Abth. Syst.*), 1904, **19**, 347–420. 2 pls. & fig. 1904.1

—— Fische von Sumatra, gesammelt von Herrn G. Schneider. Rev. Suisse Zool., Genève, 1904, **12**, 451–493. 1904.2

—— L'appareil de respiration et de circulation du *Monopterus javanensis* Lac. Arch. Sci. Phys. Nat. Genève, 1905, 4. ser. **20**, 580–581. — Verh. Schweiz. Nat. Ges., 88. Vers., 52. — C. R. Soc. Helvét. Sci. Nat., 88. sess., 70–71. 1905.1

—— Sur l'œil de Periophthalmus et Boleophthalmus. Arch. Sci. Phys. Nat. Genève, 1905, 4. sér. **20**, 579–580.—Zool. Jahrb. (*Abth. Anat.*), **27**, 331–346. pl. 1905.2

—— Ueber das Auge von Periophthalmus und Boleophthalmus. Vorläufige Mitteilung. Mitt. Naturf. Ges. Bern, 1905, 108–111. fig. 1905.3

—— Ueber *Monopterus javanensis.* Mitt. Naturf. Ges. Bern, 1905, 4. 1905.4

—— Die Zirkulationsverhältnisse von *Monopterus javanensis* Lac. Verh. Anat. Ges., Anat. Anz., 1905, **27**, 210–212. fig. 1905.5

—— Der Circulations- und Respirationsapparat von *Monopterus javanensis* Lac. Zool. Jahrb. (*Abth. Anat.*), 1906, **23**, 163–186. pl. 1906.1

—— Catalogue of the fishes of Sumatra. Natuurk. Tijdschr. Nederl. Indie, 1907, **66**, 35–250. 1907.1

Volz, *Wilhelm Theodor August Hermann* [1870 —] Neue Funde aus dem Muschelkalk Oberschlesiens. Zeitschr. Deutsch. Geol. Ges., 1896, **48**, 976–982. pl. 1896.1

Contains notice of Triassic fish-remains.

Volz, *Wilhelm,* **Frech,** *Fritz,* **Philippi,** *E.,* & **Jaekel,** *Otto.* *See* **Philippi, Jaekel** & others.

Von der Wengen, —— *See* **Wengen,** —— *von der.*

Vonk, *C.* Over de zalm op onze rivieren. Verh. Oeconom. Tak. Later Maatsch. Nijverheid, 1788. — Werken Nederl. Huishoud. Maatsch. Haarlem, 1793–1832, no. 7. 8°. 1832.1

Vorderman, *A. G.* Nachschrift [to article by Baron L. A. F. H. van Heeckeren Tot Waliën on *Cephaloptera kuhlii* Val.] Nat. Tijdschr. Nederl. Indie, 1897, **56**, 40–43. 1897.1

—— Twee lichtgevende visschen van Banda. Nat. Tijdschr. Nederl. Indie, 1900, **59**, 72–77. 1900.1

Voris, *J. H.* Material for the study of the variation of *Pimephales notatus* (Rafinesque) in Turkey lake and in Shoe and Tippecanoe lakes. Proc. Indiana Acad. Sci., 1899, 233–239. 1899.1

Voronkov, *N. V.*, **Bogojavlenskij,** *N. V.*, **Hindze,** *B. K.*, **Chmělevskij,** *C. V.*, **Gracianov,** *V. I.*, & **Zograf,** *J. N.* *See* **Chmělevskij, Gracianov** & others.

Voskoboĭnikov, *M. M.* Zur Entwicklungsgeschichte der Knochenfische [Text in Russian] Dnevn. 11. Sjězda Russ. Jest. Vrač., St. Petersb., 1901, **12**, 529–530. 1901.1

—— Die Entwickelung des Visceralskeletes der Teleostier. Studien zur Urgeschichte des Kopfskeletes der Wirbeltiere [Text in Russian] Mém. Soc. Nat. Kiev, 1910, **21**, pt. 2, 448; 449–452. 6 pls. & 30 figs. 1910.1

—— Ueber die Metamerie des Visceralskeletts. [Text in Russian] Dnevn. 12. Sjězda Russ. Jest. Vrač., Moskva, 1909–10, 287–288. 1910.2

—— Alte Hypothesen und neue Tatsachen in der Morphologie des Schädels [Text in Russian] Prot. Obsch. Kiev 1913 (1914), 21–22. 1914.1

Voskresenskiĭ, *A.* Gyrodactylose und ihre Heilung [Text in Russian] Akvarium, Moskva, 1909, **2**, 369–372. 1909.1

Vosseler, *Julius.* Fische als Moskito-Vertilger. Pflanzer, Tanga, 1908, **4**, 118–127. 1908.1

—— Erfahrungen mit Cyprinodon. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 1–4. fig. 1915.1

Vouga, *Chr.* Sur les qualités électriques chez notre silure [*Silurus glanis*] Act. Soc. Helvét. Sci. Nat. Neuchâtel, 1866, **50**, 98–99. 1866.1

Vouga, *Paul.* Notes sur les poissons du lac de Neuchâtel (Suisse) Bull. Soc. Acclim. Paris, 1866, 2. sér. **3**, 214–218; 498–515. 1866.1

—— La perche (*Perca fluviatilis*) Bull. Soc. Acclim. Paris, 1866, 2. sér. **3**, 214–218. 1866.2

—— Note sur le nouvel aquarium d'eau de mer du Palais de Cristal de Sydenham, près de Londres. L'état de la pisciculture en Angleterre, et les progrès de la pisciculture pratique en Suisse. Bull. Soc. Acclim. Paris, 1872, 2. sér. **9**, 164–174. 1872.1

—— Pisciculture de Chanélaz; projet d'établissement de pisciculture industrielle dans le Jura (Suisse) Bull. Soc. Acclim. Paris, 1873, 2. sér. **10**, 465–474. 1873.1

Vrolik, *A. J.* Studien über die Verknöcherung und die Knochen des Schädels des Teleostei. Arch. Zool., 1873, **1**, 219–318. 5 pls. 1873.1

Vrolik, *Gerard* [1775–1859] Ontleed- en natuurkundige aanteekeningen over den haai. Bijdragen Natuurk. Wetensch., 1826, **1**, pt. 1, 304–332. pl. 1826.1

—— Anatomisch-physiologische Bemerkungen über den Hay (Squalus) Zeitschr. Organ. Phys. (Heusinger), 1828, **2**, 489–513. 1828.1

Vrolik, *Willem* [1801–1863] Het leven en het maaksel der dieren. 3 vols. Amsterdam, 1854. 8°. 1854.1

Fishes, vol. iii, p. 213–426.

Vulpian, *Edme Félix Alfred* [1826–1887] Leçons sur la physiologie du système nerveux. Paris, 1864. 8°. 1864.1

Pisces, leçon 34.

—— Sur les entrecroissements qui se font entre le fibre des deux moitiés de la moelle allongée chez les poissons osseux. Bull. Soc. Philom. Paris, 1864, 6. sér. **1**, 54–57. 1864.2

—— Recherches sur le système sympathique du poisson-lune. Bull. Soc. Philom. Paris, 1865, 6. sér. **2**, 181–186. 1865.1

—— Sur la persistance des mouvements volontaires chez les poissons osseux à la suite de l'ablation des lobes cérébraux. C. R. Acad. Sci. Paris, 1886, **102**, 1526–1530. 1886.1

—— Sur la persistance des phénomènes instinctifs et des mouvements

Vulpian, *E. F. A.* volontaires chez les poissons osseux, après l'ablation des lobes cérébraux. Note complémentaire. C. R. Acad. Sci. Paris, 1886, **103**, 620–622. 1886.2

Vulpian, *Edme Félix Alfred,* & **Philipeaux,** *Jean Marie. See* **Philipeaux** & **Vulpian.**

Vutskits, *Gyorgy* [= *Georg*] Ueber die geographische Verbreitung und neue Culturen der selteneren Fisch-Arten in Ungarn und Croatien [Text in Hungarian] Pótfüz. Termész. Közl., Budapest, 1901, **33**, 158–162. 1901.1

—— Ueber neuere Standorte und die geographische Verbreitung der selteneren Fischarten Ungarns und Kroatiens. Pótfüz. Termész. Közl., Budapest, 1901, **33**, 158–162. 1901.2

—— Naturgeschichte von *Leucaspius delineatus.* Beschreibung, Dimorphismus, Vorkommen in Ungarn, Lebensverhältnisse [Text in Hungarian] Allatt. Közlem. Köt., 1903, **2**, 169–188. pl. 1903.1

—— Ueber neuere Standorte und die geographische Verbreitung der selteneren Fischartens Ungarns und Kroatiens. Math. Naturw. Ber. Ungarn, Leipzig, 1904, **19**, 342–343. 1904.1

—— Ein neuer Fischbestand der ungarischen Fauna [Text in Hungarian] Allatt. Közlem. Köt., Budapest, 1907, **6**, 120–128. pl. 1907.1

—— Ein nordamerikanischer Fisch im Balaton-See [Text in Hungarian] Pótfüz. Termész. Közl., Budapest, 1910, **42**, 83–86. 1910.1

—— Das Vorkommen des amerikanischen Forellenbarsches im Balaton-See [Text in Hungarian] Pótfüz. Termész. Közl., Budapest, 1910, **42**, 130–133. 1910.2

—— Ueber eine neue Fischart [*Gobius kessleri* Günth.] der ungarischen Fauna [Text in Hungarian] Allatt. Közlem. Köt., 1911, **10**, 31–43. 2 figs. 1911.1

—— Meine ichthyologische Studienreise an der unteren Donau [Text in Hungarian] Földr. Közlem., Budapest, 1912, **40**, 163–173. 1912.1

—— Ueber die Bastarde der Cyprinoiden des Balatonsees [Text in Hungarian] Math. Termész. Ert., Budapest, 1913, **31**, 204–224. 1913.1

—— Ueber die Fischfauna der unteren Donau [Text in Hungarian] Allatt. Közlem. Köt., 1914, **13**, 29–45. 2 figs. 1914.1

—— Ueber die Artmerkmale von *Lucioperca volgensis* und den Sexualdimorphismus von *Lucioperca sandra* [Text in Hungarian] Allatt. Közlem. Köt., 1915, **14**, 197–207. 2 figs. 1915.1

German résumé, p. 274.

—— Der Zander (Le sandre) *Lucioperca lucioperca* (L.) *Lucioperca sandra* Cuv. und Val. Schweiz. Fischerei Zeitg., 1916, 24. Jahrg., 33–39. fig. 1916.1

W

W. Queries respecting the natural history of the salmon, sea-trout, bull-trout, herling, etc. Mag. Nat. Hist., 1830, **3**, 479–481. 1830.1

W. Ueber den Sterlet [*Acipenser ruthenus*] Allgem. Fischerei Zeitg., 1896, 21. Jahrg., no. 4, 58–61. fig. 1896.1

W. Zur künstlichen Hechtzucht. Oesterr. Fischerei Zeitg., 1911, 8. Jahrg., 216–217. 1911.1

W., *J.* The lamprey. Forest & Stream, 1877, **9**, 413. 1877.1

W., *J.* The ribbon fish (*Gymnetrus banksii* Cuv.) taken off the coast at Amble. Nat. Hist. Trans. Northumb. Durham, 1877, **5**, 341–342. 1877.2

W., *S. D.* The fishes (Pisces) of Britain systematically arranged. London & Birmingham, 1836. 8°. — The Analyst, **5**, 204–215. 1836.1

W., *T.* Habits of the black bass of the Potomac. Forest & Stream, 1876, **7**, 324. 1876.1

W., *W. B. B.* A contribution to the history of the propagation of the eel (*Muræna anguilla* L.) and conger (*Muræna conger* L.) Mag. Nat. Hist., 1832, **5**, 744–745. 1832.1

Waalewyn, *H. W.* Bydrage tot de histologie van den vischdarm. Leiden, 1872. pl. 1872.1

Wacautah, *pseudonym* for **Peirce,** *Milton P.*

Wackenheim, *M.* Forelle und Ringelnatter. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 77–78. 1911.1

—— Beobachtungen bei der Makropodenzucht. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 305–307. fig. 1912.1

Wackenheim, *M.* & **Engmann,** *P.* Weitere Angaben über das Vorkommen des Sonnenfisches im Elsass. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 238–239. 1911.1

Waddell, *H. M.* A letter containing additional information regarding the new electric fish (*Malapterurus beninensis* Mur.) Proc. Roy. Phys. Soc. Edinburgh (1854–58) 1858, **1**, 61–62. 1858.1

Wade, —— Note relative au fait cité par M. Duchemin: "Singulière cause de la mortalité des carpes d'un vivier." C. R. Acad. Sci. Paris, 1870, **70**, 1023. 1870.1

Wade, *Herbert T.* The life of the deep sea. The modern science of marine biology. Scient. Amer., 1910, **103**, 438–439. 1910.1

Wadham, *Percy.* Fishes, amphibians, reptiles and mammals of the Isle of Wight (In Morey, F. A guide to the natural history of the Isle of Wight, etc. 1909. 8°) 1909.1

Wächter, —— Etwas über Fische und Fischerei. Hannov. Mag., 1839. 32 p. 1839.1

Waele, *Henri de.* Sur l'embryologie de l'œil des poissons (note préliminaire) Bull. Mus. Hist. Nat. Paris, 1900, **6**, 378–382. 1900.1

Waga, *T.* On the vagus nerve of the eel (*Anguilla vulgaris*) [Text in Russian] Trud. Obshch. Varshavskom Univ., Warsaw, 1896, **3**, 19–42. pl. 1896.1

Wagener, *G.* Ueber einen neuen in der *Chimæra monstrosa* gefundenen Eingeweidewurm. Arch. Anat. Physiol., 1852, 543–554. 2 pls. 1852.1

Wagner, *Albertus* [1827–1871] De spatulariarum anatome. Berolini, 1848. 18 p. pl. 4°. Inaug. Dissert. 1848.1

—— Fossile Fische aus einem neuentdeckten Lager im südbayerischen Tertiär-Gebirge. Sitzber. Bayer. Akad., 1860, **1**, 52–57. 1860.1

—— Ueber die Fisch- und Saurier-Arten, welche im unteren und oberen Lias zugleich vorkommen sollen. Sitzber. Bayer. Akad., 1860, **1**, 36–52. 1860.2

Wagner, *Christian.* What does a fish cost? Rept. U. S. Fish Comm. 1878 (1880), **6**, 605–607. 1880.1

Wagner, *George.* Notes on Polyodon. Science, 1904, n. s. **19**, 554–555. 1904.1

Wagner, *G.*

—— Notes on the fish-fauna of lake Pepin. Trans. Wisconsin Acad. Sci., 1908, **16**, pt. 1, 23–37. 1908.1

—— The tullibee (*Argyrosomus tullibee* Richardson) as a fish of economic importance. Bien. Rept. Comm. Fish. Wisconsin, 1907–08, 152–155. 1908.2

—— Tullibee (*Argyrosomus tullibee* Richardson) as a fish of economic importance. Trans. Amer. Fisheries Soc. 1908 (1909), 122–124. 1909.1

—— *Argyrosomus johannæ,* a new species of cisco from lake Michigan. Science, 1910, n. s. **31**, 957–958. 1910.1

—— On the stickleback of lake Superior. Science, 1910, n. s. **32**, 28–30. 1910.2

—— The whitefish of Silver island lake, Minnesota. Bull. Wisconsin Nat. Hist. Soc., 1910, **8**, 132–134. 1910.3

—— The cisco of Green lake, Wisconsin. Bull. Wisconsin Nat. Hist. Soc., 1911, **9**, 73–77. pl. 1911.1

Description of *Leucichthys birgei,* sp. nov.

—— On the present status of *Lepisosteus sinensis* Bleeker. Zool. Anz., 1912, **39**, 738–741. fig. 1912.1

Wagner, *George,* & **Juday,** *Chancey.* *See* **Juday** & **Wagner.**

Wagner, *Gottfried Jacob.* Der vollkommene Fischer, welcher zeiget, wie man die Teiche anlegen, bauen, etc. 3. ed. Breslau, 1762. vii, 191 p. 8°. 1762.1

—— The same. 4. ed. Wien, 1785. 8°. 1785.1

Wagner [*Johann*] *Andreas* [1797–1861] Beiträge zur Kenntniss der bayerischen Fauna. Gelehrte Anz. Bayer. Akad. Wiss., 1846, nos. 81–84; 87. 1846.1

—— Beiträge zur Kenntniss der in den lithographischen Schiefern abgelagerten urweltlichen Fische. Abh. Bayer. Akad. Wiss., 1851, **6**, 1–80. 4 pls. 1851.1

—— Ueber einen Zahn des *Polyptychodon interruptus.* Sitzber. Bayer. Akad. Wiss., 1853, 25–27. 1853.1

—— Characteristik neuer Arten von Knorpelfischen aus den lithographischen Schiefern der Umgegend von Solenhofen. Gelehrte Anz. Bayer. Akad. Wiss., 1857, **44**, 288–293. 1857.1

—— Caractéristique de quelques nouvelles espèces de poissons cartilagineux des schistes lithographiques. L'Institut, 1858, **26**, no. 1287, 290–291. 1858.1

—— Monographie der fossilen Fische des fränkisch-oberpfälzischen lithographischen Schiefers. Gelehrte Anz. Bayer. Akad. Wiss., 1859, **49**, col. 9–20. 1859.1

—— Bemerkungen über die Arten von Fischen und Sauriern, welche im untern wie im obern Lias zugleich vorkommen sollen. Sitzber. Bayer. Akad. Wiss., 1860, 36–52. 1860.1

—— Die Griffelzähner (Stylodontes) eine neu aufgestellte Familie aus der Abtheilung der rautenschuppigen Ganoiden. Gelehrte Anz. Bayer. Akad. Wiss., 1860, **50**, 81–100. 1860.2

—— Ueber das Vorkommen eines fossilen Fisches im Juradolomite. Gelehrte Anz. Bayer. Akad. Wiss., 1860, **50**, 101–102. 1860.3

—— Ueber fossile Fische aus einem neuentdeckten Lager in den Südbayerischen Tertiärgebilden. Sitzber. Bayer. Akad. Wiss., 1860, **50**, 52–57. 1860.4

—— Zur Charakteristik der Gattungen Sauropsis und Pachycormus nebst ihren Verwandten. Gelehrte Anz. Bayer. Akad. Wiss., 1860, **50**, 209–227. 1860.5

—— Monographie der fossilen Fische aus den lithographischen Schiefern Bayern's. Erste Abtheilung; Plakoiden und Pyknodonten. Zweite Abtheilung; Ganoidei. Abh. Bayer. Akad. Wiss., 1861–63, **9**, 277–352; 611–748. 10 pls. 1863.1

Wagner, *K.* Beiträge zur Entstehung des jugendlichen Farbkleides der Forelle (*Salmo fario*) Intern. Rev. Gesam. Hydrob. Leipzig, 1911, **4** (*Biol. Suppl.*), 1–32. pl. 1911.1

Wagner, *Moritz Friedrich* [1813–1887] Neue Gattungen und Arten von Fischen aus Central-Amerika, beschrieben von Kner und Steindachner. München, 1865. 6 pls. 4°. 1865.1

—— Naturwissenschaftliche Reisen im tropischen Amerika, etc. Stuttgart, 1870. xxiv, 632 p. 8°. 1870.1

—— Ueber die hydrographischen Verhältnisse und das Vorkommen der Süsswasserfische in den Staaten Panama und Ecuador. Abh. Bayer. Akad. Wiss., 1870, **10**, 63–113. 1870.2

—— Die Entstehung der Arten durch räumliche Sonderung. Gesammelte Aufsätze von M. Wagner . . .

herausgegeben von [seinem Neffe] . . . M. Wagner. Basel, 1889. 667 p. 8°. 1889.1

Biographische Skizze von K. von Scherzer.

Wagner, *Paul.* Fischfang im Gardasee. Die Natur, 1897, 46. Jahrg., no. 52, 616–617. 1897.1

-**Wagner,** *Richard.* Beitrag zur genaueren Kenntniss des Muschelkalks bei Jena. Abh. Preuss. Geol. Landesanst., 1897, n. s. 27. Heft, 105. 2 pls. & 7 figs. 1897.1

Wagner, *Rudolf.* Beiträge zur Kenntniss der Gattung Lebias Cuv. und der verwandten Gattungen, nebst Beschreibung zweier neuen in Sardinien entdeckten Arten. Isis (Oken), 1828, 1050–1057. fig. — Bull. Sci. Nat. (Férussac), 1829, **19**, 373–374. 1829.1

—— Icones zootomicæ. Lipsiæ, 1841. 35 pls. fol. 1841.1

—— Disposition des fibres nerveuses dans l'organe électrique de la torpille. C. R. Acad. Sci. Paris, 1847, **24**, 856–857. — L'Institut, 1847, **15**, no. 698, 163. 1847.1

—— Neue Untersuchungen über die Elemente der Nervensubstanz. Göttinger Nachricht., 1847, 17–20. 1847.2

—— Ueber den feineren Bau des electrischen Organs im Zitterrochen. Abh. Ges. Wiss. Göttingen, 1845–47, **3**, 141–166. 1847.3

—— Ueber die Verbreitung der Nerven im electrischen Organe des Zitterrochens. Göttinger Nachricht., 1847, 81–84. 1847.4

—— Fortsetzung seiner Untersuchungen über die electrischen Fische. Göttinger Nachrichten, 1848, 212–222. 1848.1

—— Einige Bemerkungen zu dem Aufsatze des Herrn Prof. Ecker in dieser Zeitschrift: "Ueber die Entwickelung der Nerven des electrischen Organs." Zeitschrift Wiss. Zool., 1849, **1**, 255–256. 1849.1

Wagner, *Rudolf,* **Ovsjannikov,** *Phillipp,* & **Kovalevsky,** *Aleksandr Onufrievich. See* **Kovalevsky, Ovsjannikov** & **Wagner.**

Wahlberg, *Arthur.* Bidrag till kännedomen om Littois träsk med särskild hänsyn till dess plankton. Acta Soc. Fauna Flora Fenn., 1913, **38**, no. 1. 201 p. 3 pls. & 2 maps. 1913.1

Wahlberg, *V.* On the investigations concerning the spawning of the codfish and the flounder in the neighbourhood of Stockholm, during the year of 1900 [Text in Swedish] Svensk Fiskeritidskr. 1901, **10**, 170–173. 1901.1

Wahlberg, *Y. Y. A.* Account of the fishery in the southern part of the province of Elfsborg [Text in Swedish] Elfsborgs Södra Hushälln.-Sällsk. Qvartalsskr., Borås, 1903, 179–189. 1903.1

Wahlgren, *Fred.* Anteckningar öfver byggnaden af rygg-märgsganglierna hos rockan. Handl. Svensk. Vet. Akad., 1852, 361–372. pl. 1852.1

—— Några anteckningar om en stor klumpfisk, *Mola nasus* Raf. Acta Univ. Lund, 1867, **4** (*Math.*), no. 6. 18 p. 1867.1

Wainio, *Edvard. Gobio fluviatilis.* Meddel. Soc. Fauna Flora Fenn., 1900, **24**, 24. 1900.1

Waite, *Edgar Ravenswood* [1866 —] Vertebrates of the western Ainsty (Yorkshire) Naturalist, 1891, 111–114. 1891.1

—— Trout hatching at Knaresborough. Naturalist, 1892, 147–148. 1892.1

—— New or rare fishes from Maroubra, New South Wales. Proc. Linn. Soc. New South Wales, 1894, 2. ser. **9**, 215–227. pl. 1894.1

—— On the egg-cases of some Port Jackson sharks. Journ. Linn. Soc. London (*Zool.*), 1896, **25**, 325–329. pl. 1896.1

—— The mammals, reptiles and fishes of Funafuti. Mem. Australian Mus., 1897, **3**, 165–201. pl. 1897.1

—— New South Wales sea fisheries. Trawling operations off the coast of New South Wales between the Manning river and Jervis bay, carried on by H. M. C. S. "Thetis." Scientific report on the fishes. Official report. Sydney, 1898. 45 p. 12 pls. 4°. 1898.1

—— Sea fisheries (In Report upon trawling operations off the coast of New South Wales, p. 23–62. 12 pls. & chart. Sydney, 1898) 1898.2

—— The fishes of Funafuti (Supplement) Mem. Australian Mus., 1899, **5**, pt. 9, 537–546. fig. 1899.1

—— *Lampris luna* Gmelin; its occurrence in New Zealand waters. Rec. Australian Mus., 1899, **3**, 166–167. 1899.2

Waite, *E. R.*

—— *Regalecus glesne* Ascanius, an addition to the fauna of New South Wales. Rec. Australian Mus., 1899, **3**, 163–165. 1899.3

—— Scientific results of the trawling expedition of H. M. C. S. "Thetis." Fishes. Mem. Australian Mus., 1899, **4**, 1–132. 31 pls. & 10 figs. 1899.4

—— *Stegostoma tigrinum*, an addition to the fauna of New South Wales. Rec. Australian Mus., 1899, **3**, 133–134. 1899.5

—— Additions to the fish-fauna of Lord Howe island. Rec. Australian Mus., 1900, **3**, 193–209. 2 pls. & 2 figs. 1900.1

—— Australian fishes and the fishing industry. Wragge's Almanac, 1900, 296–301. 1900.2

—— Fishes of the "Thetis" expedition. Amer. Naturalist, 1900, **34**, 438. 1900.3

—— Notes on fishes from western Australia, and description of a new species. Rec. Australian Mus., 1900, **3**, 210–216. pl. 1900.4

—— Additions to the fish-fauna of Lord Howe island. No. 2. Rec. Australian Mus., 1901, **4**, 36–47. 4 pls. & fig. 1901.1

—— Occasional notes on fishes. Rec. Australian Mus., 1901, **4**, 53–54. 1901.2

—— Studies in Australian sharks [Diagnosis of a new family Hemiscyllidæ] Rec. Australian Mus., 1901, **4**, 28–35. pl. & fig. 1901.3

—— New records or recurrences of rare fishes from eastern Australia. Rec. Australian Mus., 1902, **4**, 263–273. 3 pls. 1902.1

—— Notes on fishes from western Australia. No. 2. Rec. Australian Mus., 1902, **4**, 179–194. 5 pls. & figs. 1902.2

—— Skeleton of *Luvarus imperialis* Rafinesque [a fish new to the western Pacific fauna] Rec. Australian Mus., 1902, **4**, 292–297. 2 pls. & fig. 1902.3

—— Studies in Australian sharks [*Galeus antarcticus* Günther] No. 2. Rec. Australian Mus., 1902, **4**, 175–178. fig. 1902.4

—— Additions to the fish-fauna of Lord Howe island. No. 3. Rec. Australian Mus., 1903, **5**, 20–45. 3 pls. & 2 figs. 1903.1

—— A matter of nomenclature. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 288. 1903.2

—— Notes on the zoology of Paanopa or Ocean island and Naura or Pleasant island. Gilbert group. The fishes. Rec. Australian Mus., 1903, **5**, no. 1, 2–3. 1903.3

—— Additions to the fish-fauna of Lord Howe island. No. 4. Rec. Australian Mus., 1904, **5**, 135–186. 3 pls. & fig. 1904.1

—— The breeding habits of the fighting fish (*Betta pugnax* Cantor) Rec. Australian Mus., 1904, **5**, 293–295. pl. 1904.2

—— Catalogue of the fishes of Lord Howe island. Rec. Australian Mus., 1904, **5**, 187–230. 1904.3

—— New records or recurrences of rare fishes from eastern Australia. No. 2. Rec. Australian Mus., 1904, **5**, 56–61. pl. 1904.4

—— New records or recurrences of rare fishes from eastern Australia. No. 3. Rec. Australian Mus., 1904, **5**, 231–244. 2 pls. & 2 figs. 1904.5

—— A review of the eleotrids of New South Wales. Rec. Australian Mus., 1904, **5**, 277–286. 3 pls. 1904.6

—— Synopsis of the fishes of New South Wales. Mem. New South Wales Club, 1904, no. 2. 59 p. 1904.7

—— The breeding habits of the paradise fish (*Polyacanthus opercularis* Linnæus) Rec. Australian Mus., 1905, **6**, 1–4. 1905.1

—— Fishes (In The fauna of New South Wales. Official Year Book, New South Wales, 1904–05, 763–770) 1905.2

—— Notes on fishes from western Australia. No. 3. Rec. Australian Mus., 1905, **6**, 55–82. 6 pls. & figs. 1905.3

—— *Pseudaphritis urvillii* Cuvier and Valenciennes, a fish new to western New South Wales. Rec. Australian Mus., 1905, **6**, 38–39. 1905.4

—— Descriptions of and notes on some Australian and Tasmanian fishes. Rec. Australian Mus., 1906, **6**, pt. 3, 194–210. 3 pls. 1906.1

—— Studies in Australian sharks [*Carcharias brachyurus* Günther, *Carcharias macrurus* Ramsay and Ogilby] No. 3. Rec. Australian Mus., 1906, **6**, 226–229. 3 pls. & fig. 1906.2

—— A basic list of the fishes of New Zealand. Rec. Canterbury Mus., Christchurch, 1907, **1**, 1–35. 1907.1

—— The generic name Crepidogaster. Rec. Australian Mus., 1907, **6**, 315. 1907.2

—— *Parascyllium collare* Ramsay and Ogilby. Oviposition. Rec. Australian Mus., 1908, **7**. 1908.1

—— Scientific results of the New Zealand government trawling expedition, 1907 [Pisces] Rec. Canterbury Mus., Christchurch, 1909, **1**, no. 2, 131–272. 35 pls. 1909.1

—— Vertebrata of the subantarctic islands of New Zealand [Pisces] (In The subantarctic islands of New Zealand; reports . . . edited by Chas. Chilton, vol. ii, p. 585–600. fig. Wellington, N. Z., 1909) 1909.2

—— A list of the known fishes of Kermadec and Norfolk islands, and a comparison with those of Lord Howe island. Trans. New Zealand Inst., 1910, **42**, 370–383. 2 pls. 1910.1

—— Notes on New Zealand fishes. Trans. New Zealand Inst., 1910, **42**, 384–391. pl. & 3 figs. 1910.2

—— Additions to the fish-fauna of the Kermadec islands. Proc. Trans. New Zealand Inst., 1911, pt. 1, 28–29. 1911.1

—— Additions to the fish-fauna of New Zealand. Proc. Trans. New Zealand. Inst., 1911, **43**, 25–26. 1911.2

—— Antarctic fishes (In Shackleton, Sir E. H. British Antarctic expedition, 1907–09, vol. ii, part 2, 11–16. Sydney, 1911. 4°) 1911.3

—— Notes on New Zealand fishes. Proc. Trans. New Zealand Inst., 1911, **44**, 193–202. 2 pls. 1911.4

—— Additions and corrections to the basic list of the fishes of New Zealand. Rec. Canterbury Mus., Christchurch, 1912, **1**, 313–322. 1912.1

—— Additions to the fish-fauna of New Zealand. Proc. Trans. New Zealand Inst., 1912, **44**, 49–51. 1912.2

—— Fishes of the genus Tripterygion and related genera in New Zealand. Rec. Canterbury Mus., Christchurch, 1913, **2**, 1–16. 5 pls. 1913.1

—— Notes on New Zealand fishes. Proc. Trans. New Zealand Inst., 1913, **45**, 215–224. pls. 1913.2

—— Notes on New Zealand fishes. Proc. Trans. New Zealand Inst., 1913, **46**, 127–131; 215–224. 4 pls. 1913.3

—— Results of an examination of some drawings of New Zealand fishes. Rec. Canterbury Mus., Christchurch, 1913, **2**, 17–21. pl. 1913.4

—— Notes on New Zealand fishes. Proc. Trans. New Zealand Inst., 1914, **47**, 127–131. 4 pls. 1914.1

—— A supposed incidental occurrence of a sucker fish (*Echeneis australis* Bennett) in Australian waters. Trans. Roy. Soc. S. A., 1915, **39**, 340–343. pl. 1915.1

—— Fishes (In Australasian Antarctic Expedition, 1911–1914. Sci. Rept. ser. C, Zool. & Bot., vol. iii, pt. 1. 92 p. 5 pls. Adelaide, 1916) 1916.1

—— Fishes of the Australian Antarctic Expedition, 1911–1914. Aurora, 1916, 1–90. 4 pls., 16 figs. & 2 maps. 1916.2

Waite, *Edgar R.*, & **McCulloch,** *A. R.* The fishes of the South Australian government trawling cruise of 1914. Trans. Roy. Soc. South Australia, 1915, **39**, 455–476. 4 pls. 1915.1

—— A revision of the genus Aracana and its allies. Trans. Roy. Soc. S. A., 1915, **39**, 477–493. 10 pls. 1915.2

—— Additions to the fish-fauna of Lord Howe island. No. 5. Trans. Roy. Soc. South Australia, 1916, **40**, 437–451. 4 pls. 1916.1

For no. 4 *see* Waite, E. R., 1904.1, *supra.*

Wajgel, *Leopold.* Die Zusammenziehung der zwei Arten von Petromyzon (*P. planeri* und *P. fluviatilis*) in eine. Verh. Zool.-Bot. Ges. Wien, 1883, **33**, 311–320. pl. & 3 figs. 1883.1

Wakeman, *A. J.* Ueber die Verteilung des Stickstoffs in der Leber des Störs. Zeitschr. Physiol. Chem., 1905, **44**, 341. 1905.1

Wakiya, *Y.*, & **Takahashi,** *N.* Nihon san shirauo [Salangidæ of Japan] Zool. Mag. Tokyo, 1913, **25**, 551–555. 1913.1

Walbaum, *Johann Julius* [1724–1799] Naturgeschichte des gelben Kohlmauls [*Gadus pollachius* L.] Schrift. Ges. Naturf. Freunde Berlin, 1783, **4**, 147–160. 1783.1

—— Beschreibung der russigen Meerquappe mit einer Bartfaser (*Gadus mustela*) [*Motella tricirrhata* Cuv.]

Walbaum, *J. J.*
Schrift. Ges. Naturf. Freunde Berlin, 1784, **5**, 107–125. 1784.1

—— Beschreibung des breitnasigen Hayes [*Thalassorhinus platyrhynchus*] Schrift. Ges. Naturf. Freunde Berlin, 1784, **5**, 381–393. 1784.2

—— Petri Artedi renovati, pars i et ii [and iii–v] *i. e.* Bibliotheca et philosophia ichthyologica, cura Iohannis Iulii Walbaumii edidit. 5 pts. in 3 vols. Grypeswaldiæ, [1788] 1789 [–1793] 4 pls. 8°. 1788.1

The separate parts of this work are thus entitled:

Pars i. Petri Artedi Angermannia-Sueci Bibliotheca ichthyologica, seu Historia litteraria ichthyologiæ in qua recensio fit auctorum qui de piscibus scripsere librorum titulis, loco et editionis tempore, additis iudiciis, quid quivis auctor præstiterit, quali methodo et successu scripserit, disposita secundum secula in quibus quisquis author floruit. Ichthyologiæ, pars i. Emendata et aucta a Iohanne Iulio Walbaum. Grypeswaldiæ, 1788. 230 p. pl.

Pars ii. Petri Artedi Philosophia ichthyologia in qua quicquid fundamenta artis absolvit, characterum scilicet genericorum, differentiarum specificarum, varietatum et nominum theoria rationibus demonstratur et exemplis corroboratur. Ichthyologiæ, pars ii. Emendata et aucta a Iohanne Iulio Walbaum. Grypeswaldiæ, 1789. 196 p.

Pars iii. Petri Artedi Sueci Genera piscium in quibus systema totum ichthyologiæ proponitur cum classibus, ordinibus, generum characteribus, specierum differentiis, observationibus plurimis. Redactis speciebus 242 ad genera 52. Ichthyologiæ, pars iii. Emendata et aucta a Iohanne Iulio Walbaum. Grypeswaldiæ, 1792. 723 p. 3 pls.

Pars iv. Petri Artedi Angermannia-Sueci Synonymia nominum piscium fere omnium; in qua recensio fit nominum piscium, omnium facile authorum, qui umquam de piscibus scripsere; uti Græcorum, Romanorum, Barbarorum, nec non omnium insequentium ichthyologorum, una cum nominibus inquilinis variarum nationum. Ichthyologiæ, pars iv. Editio II. Grypeswaldiæ, 1793. 140 p.

Pars v. Petri Artedi Sueci Descriptiones specierum piscium quos vivos præsertim dissecuit et examinavit, inter quos primario pisces regni Sueciæ facile omnes accuratissime describuntur cum non paucis aliis exoticis. Ichthyologiæ, pars v. Editio II. Grypeswaldiæ, 1793. 112 p.

"The 'Genera Piscium' was well edited by Walbaum . . . He gave the text as it was left by Linnæus, and indicated the original pages by marginal numbers. He brought the work up to date by additions given in footnotes, which consequently greatly added to the volume." — T. N. Gill, Science, 1903, n. s. **17**, 745.

Dr. Gill also remarks of this work: "The compilation has some value, not only on account of the original descriptions of species copied from previous authors, but because of the reproductions of the descriptions of the new genera introduced by various authors into the system. It is also of interest to the student of American species by reason of the incorporation therein, under specific names, of anonymous American species described by Schoepf." — Smithson. Misc. Coll. 1872 (1874), **11**, no. 247, p. 38.

The editions of Artedi by Linnæus (1738) and J. G. Schneider (1789) are referred to under the names of the editors.

—— Walbaumii anatomia Xiphiæ (In Petri Artedi renovati, *i. e.* Bibliotheca et philosophia ichthyologica, cura Iohannis Iulii Walbaumii edidit. Pars ii, p. 146–155. Grypeswaldiæ, 1789. 8°) 1789.1

—— J. T. Kleinii ichthyologia enodata, sive index rerum ad historiam piscium naturalem synonymis recentissimorum systematicorum explicatus. Lipsiæ, 1793. vi, 114 p. 4°. 1793.1

Walch, *Johann Ernst Emmanuel,* & **Knorr,** *Georg Wolfgang. See* **Knorr** & **Walch.**

Walcott, *Charles Doolittle* [1850 —] Discovery of fish-remains in Lower Silurian rocks. Amer. Journ. Sci., 1891, 3. ser. **41**, 245. 1891.1

—— Supposed Trenton fossil fish. Amer. Geologist, 1891, **8**, 178–180. 1891.2

Note on the discovery of Ordovician fish-remains in Colorado.

—— Preliminary notes on the discovery of a vertebrata fauna in Silurian (Ordovician) strata. Bull. Geol. Soc. America, 1892, **3**, 153–172. 3 pls. 1892.1

Describes *Astraspis desiderata*, an ostracoderm allied to Thyestes, also the problematical remains named Dictyorhabdus and Eryptichius. *See* O. Jaekel in Neues Jahrb. Mineral., 1895, 162; E. D. Cope in Amer. Naturalist, **25**, 137; L. Vaillant in C. R. Acad. Sci. Paris, 1902, **134**, 1321–1322; and C. R. Eastman in Proc. U. S. Nat. Mus., 1917, **52**, 235–304.

—— Correspondence relating to collection of vertebrate fossils made by the late Prof. O. C. Marsh. Science, 1900, n. s. **11**, 22–23. 1900.1

This letter, directed to Prof. S. P. Langley, contains a partial list of the types of species described by Professor Marsh, and now in the National Museum.

Walcott, *John.* The figures, description and history of exotic animals comprised under the classes Amphibia and Pisces of Linnæus. London, 1788. illust. 4°. 1788.1

A copy in the British Museum contains the original drawings for some of the figures as well as that of a young Iguana that has not been reproduced.

Walcott, *Sylvanus.* A new and complete natural history of quadrupeds, beasts, birds, fishes, reptiles, insects, etc. London [1795] 542 p. 159 pls. fol. 1795.1

"The work is of most interest as a literary curiosity, being a popular compilation, of no scientific value." — J. A. Allen, Bibl. of Cetacea and Sirenia, 1882, p. 484.

There is another edition, undated, printed at London, and revised by George Henry Millar.

618 p. 85 pls. fol. Book iii is entitled: A new and complete history of fishes in general.

Walderdorff, *(Graf) W. von.* Der Forellenbarsch in der Teichwirthschaft. Allgem. Fischerei Zeitg., 1901, **26**, 7–10. 1901.1

Waldeyer, *Heinrich Wilhelm Gottfried* [1836 —] Untersuchungen über die Entwickelung der Zähne. Königsberg. Med. Jahrb., 1864, **4**, 236–299. — Zeitschr. Ration. Medicin, **24**, 168–213. 1864.1

Waldheim, *G. Fischer de. See* **Fischer von Waldheim,** *G.*

Waldow, —— Ueber Haifischgebisse. Arch. Schiffs-Trop. Hyg., 1911, **15**, 177–180. 1911.1

Waldschmidt, *Julius.* Beitrag zur Anatomie des Zentralnervensystems und des Geruchsorgans von *Polypterus bichir.* Anat. Anz., 1887, 2. Jahrg., 308–328. figs. 1887.1

—— Die Bedeutung der Schwimmblase für die Fische. Jahresber. Nat. Ver. Elberfeld, 1906, 11. Heft, 50. 1906.1

Wałecki, *Anton.* Materyaly do fauny ichthyologiczej Polski. II. Systematyczny przeglad ryb Krajowych. Warszawa, 1864. 115 p. 8°. 1864.1

—— Przyczynek do fauny ichtyjologicznéj. Pamietnik Fizjograficzny, Warsaw, 1890, **10**, 273–302. 1890.1

Wales, *William.* Journal of a voyage made by order of the Royal Society to Churchill river, on the north-west coast of Hudson's bay, of thirteen months residence . . . in 1768 and 1769. Phil. Trans. Roy. Soc. London, 1770, **60**, 100–136. 1770.1

Fishes, p. 127.

Walke, *E. H.* Spawning of Esox (pike or pickerel) in North Carolina. Bull. U. S. Fish Comm. 1883, **3**, 295. 1883.1

Walker, *C. A.* On mounting fish. Scient. Amer., 1870, **22**, 74–75. 1870.1

Walker, *C. E.* Amateur fish-culture. Westminster, 1901. 101 p. pl. 12°. 1901.1

Walker, *C. H.* Location of a salmon-hatchery in Oregon. Bull. U. S. Fish Comm. 1885, **5**, 309–310. 1885.1

Walker, *E. M.* Bibliography of Canadian zoology for 1912. Trans. Roy. Soc. Canada, 1914, 3. ser. **8**, sect. 4, 187–199. 1914.1

Walker, *George.* The fisheries of France in 1880, 1881, and 1882. Rept. U. S. Fish Comm. 1883 (1885), **13**, 1189–1191. 1885.1

Walker, *Robert.* On the occurrence of a species of Regalecus among the rocks at St. Andrews; with a few notes on its anatomy. Ann. Mag. Nat. Hist., 1862, 3. ser. **10**, 13–17. 1862.1

—— Observations on some of the fossil fishes of Dura Den. Ann. Mag. Nat. Hist., 1863, 3. ser. **11**, 72–80. 1863.1

—— On a new species of Amblypterus (*A. anconæchmodus*] and other fossil fish-remains from Pitcorthie, Fife. Trans. Edinburgh Geol. Soc., 1874, **2**, pt. 1, 119–124. pl. — Neues Jahrb. Mineral., 1873, 112. 1874.1

—— On the occurrence of the bonito (*Thynnus pelamys*) near St. Andrews, with some remarks on the Scombridæ. Scottish Naturalist, 1873–74, **2**, 193–196. 1874.2

—— On the Salmonidæ of the Eden, Fife, with remarks on their condition in other rivers. Scottish Naturalist, 1873–74, **2**, 337–346. 1874.3

Walker, *S. T.* Fish mortality in the gulf of Mexico. Proc. U. S. Nat. Mus., 1883, **6**, 105–109. — Ann. Mag. Nat. Hist., 1883, 5. ser. **12**, 355–358. 1883.1

Walker, *W.* Disease in salmon. Nature, 1879, **20**, 121–122. 1879.1

Wall, *E.*, **Boulenger,** *G. A.*, **Annandale,** *N.*, & **Regan,** *C. T. See* **Boulenger, Annandale,** & others.

Wallace, *Alfred Russel* [1823–1913] For biographical notices, *see* Osborn, H. F. Scientific worthies. Dr. Alfred Russel Wallace. Nature, 1912, **89**, 367–370. *Idem,* A great naturalist; Alfred Russel Wallace, 1823–1913. Amer. Mus. Journ., 1913, **13**, 331–333. — Alfred Russel Wallace, 1823–1913. Pop. Sci. Monthly, 1913, **83**, 523–537.

—— Original pencil-drawings of fishes of the Rio Negro, made between 1850–1852. 4 vols. [n. d.] obl. fol.

These drawings are preserved in the British Museum of Natural History.

—— On some fishes allied to Gymnotus. Proc. Zool. Soc. London, 1853, **21**, 75–76. — Ann. Mag. Nat. Hist., 2. ser. **14**, 398–399. 1853.1

—— The geographical distribution of animals with a study of the relations

Wallace, *A. R.*
of living and extinct fauna, as elucidating the past changes of the earth's surface. 2 vols. London & New York, 1876. illust. 8°. 1876.1

—— Die geographische Verbreitung der Thiere. Uebersetzt von A. B. Meyer. 2 vols. Dresden, 1876. 7 maps & 20 illust. 8°. 1876.2

—— Island life; insular faunas and floras, geology, climatology. London, 1880. 8°. 1880.1

—— Alfred Russel Wallace; letters and reminiscences, edited by James Marchant. London & New York, 1916. 8°. 1916.1

Wallace, *Louise B.* The structure and development of the axillary gland of Batrachus. Journ. Morphol., 1893, **8**, 563–568. pl. 1893.1

—— The germ ring in the egg of the toadfish (*Batrachus tau*) Journ. Morphol., 1899, **15**, 9–14. 2 pls. 1899.1

Wallace, *W. C.* Discovery of a muscle in the eye of fishes. Amer. Journ. Sci., 1834, **26**, 394. 1834.1

—— Dissection of the eye of the halibut (*Pleuronectes hippoglossus* Linn.) Amer. Journ. Sci., 1834, **26**, 392–394. 1834.2

—— Dissection of the eye of the streaked bass, *Perca nobilis*, or *P. mitchelli;* with observations on the accommodation of the eye to distances. Amer. Journ. Sci., 1835, **27**, 216–222. 1835.1

—— Reply to Mr. Dalrymple, "On an undescribed muscle in the eye of fishes." Mag. Nat. Hist., 1838, **2**, 553–555. 1838.1

Wallace, *William* [1832—] On the ova, larvæ and young fishes collected by the "Garland" in the latter half of 1895. 14. Ann. Rept. Fishery Board Scotland, 1896, 223–228. 1896.1

—— Observations on ovarian ova and follicles in certain teleostean and elasmobranch fishes. Quart. Journ. Micr. Sci., 1903, **47**, 161–213. 3 pls. 1903.1

—— Preliminary investigations on the age and growth-rate of plaice. Rept. North Sea Fish. Invest., 1905, no. 2, 199–227. pl. & figs. tables. 1905.1

—— Report on the age and growth-rate of plaice in the southern North sea, as determined by the investigation of otoliths. Rept. North Sea Fish. Invest. 1904–05 (1907), pt. 1, 1–47. 5 pls. & 13 figs. 1907.1

—— Report on the size and age of plaice at maturity in the North sea and English channel. Rept. North Sea Fish. Invest., 1909, pt. 2, 51–72. 2 pls. & map. 1909.1

—— Further report on the age and growth-rate of plaice in the North sea and English channel, as determined by the investigation of otoliths. 3. Rept. Intern. Fish. Invest. North Sea & Adjac. Waters 1906–08 (1911), 109–175. pl. & 10 figs. 1911.1

Wallem, *Frederik M.* Om de amerikanske fiskerier. Christiania, 1878. 52 p. 8°. 1878.1

—— Om de franske fiskerier og nogle fiskeri-industrielle forholde samt skibsfartsafdelingen pa undstillingen. Christiania, 1880. 198 p. 9 pls. 8°. 1880.1

—— Report on the American fisheries. Rept. U. S. Fish Comm. 1878 (1880), **6**, 75–115. 1880.2

—— Notes on the fish supply of Norway. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **5**, pt. 7. 1883.1

Wallenberg, *Adolf.* Beiträge zur Kenntnis des Gehirns der Teleostier und Selachier. Anat. Anz., 1907, **31**, 369–399. 46 figs. 1907.1

—— Neue Beiträge zur Anatomie des Gehirns der Teleostier und Selachier. Allgem. Zeitschr. Psychiatr., 1907, **64**, 715–716. 1907.2

Wallenger, *W. A.* Curious behaviour of mahseer (*Barrus tor*) Journ. Nat. Hist. Soc., Bombay, 1908, **18**, no. 3, 690. 1908.1

Wallengren, *Hans Thure Sigurd.* Bidrag till kännedomen om familj Urceolarinæ Stein. Acta Universitatis Lundensis, 1897, **33**, no. 8, 48 p. 2 pls. & 14 figs. 1897.1
Parasites on gills of fishes.

Wallenius, *Elis.* Jagt- och fiskeriförhållandena inom Kajana härad. Tidskr. Jägare & Fisk., 1896, **4**, 49–56. 1896.1

—— Kajaanin joella. Suomen Urh. Lehti, 1898, **1**, 301–311. 1898.1

Wallenius, *Johan Fredrik.* Dissertatio academica historiam descriptionemque parœciæ Mändyharju sistens.

Inaug. Dissert. 3 pts. Abo, 1812–14. 51 p. 4°. 1814.1

Wallich, *Claudius.* A method of recording egg development for use of fish-culturists. Rept. U. S. Comm. Fish. 1900 (1901), **26**, 185–194. pl. 1901.1

Wallich, *George Charles* [1815–1899] The North Atlantic sea-bed. Part I. On the presence of animal life and the formation and nature of organic deposits at great depths. London, 1862. 7 pls. 4°. 1862.1

Wallin, *Ivan E.* An instance of acidophilic chromosomes and chromatin particles. Anat. Record, 1915, **9**, 421–424. pl. 1915.1

Presence in larva of Petromyzon of dividing cells with acidophile chromosomes.

Wallinger, *W. A.* Fly-fishing in the Bombay presidency. *Megalops cyprinoides* as a fly-taker. Journ. Bombay Nat. Hist. Soc., 1904, **15**, 719–720. pl. 1904.1

—— Estuary fishing; some remarks on its decadence as an industry in the Konkan, western India. Journ. Bombay Nat. Hist. Soc., 1907, **17**, 620–635. 8 figs. 1907.1

Wallis, *John* [1714–1793] Natural history and antiquities of Northumberland and of so much of Durham as lies between the rivers Tyne and Tweed. 2 vols. London, 1769. illust. 4°. 1769.1

Wallon, *Edouard.* Pisciculture. Bull. Soc. Imp. Zool. Acclim., 1864, 2. ser. **1**, 300–301. 1864.1

—— Rapport sur les opérations de pisciculture en 1865 et récapitulation des résultats précédents. [Paris, 1866] 1866.1

—— Questions de pêche et d'aquiculture fluviales et maritimes. Montauban, 1868. 200 p. 8°. 1868.1

Wallut, *Charles.* Rapport . . . sur les propositions de M. Lamiral relatives au rétablissement des madragues, à la création de réservoirs et viviers sur le littoral de la Méditerranée, et sur la fabrication de la poutargue. Bull. Soc. Acclim. Paris, 1863, **10**, 163–169. 1863.1

—— Rapport de la commission chargée de visiter l'établissement de pisciculture de M. le Marquis de Selve, Avilliers, près la Ferté-Alais (Seine-et-Oise) Bull. Soc. Acclim. Paris, 1867, 2. ser. **4**, 113–121. 1867.1

Walpole, (*Sir*) *Spencer* [1839–1907] Report on Billingsgate market destruction of fish in consequence of alleged inadequate accommodation, 1880. London, 1881. fol. 12 p. 1881.1

—— British fish trade. Intern. Fisheries Exhib. Lit., London, 1883. Handbooks, **1**, pt. 1. 1883.1

—— Fish transport and fish markets. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **4**, pt. 4. 1883.2

Walpole, *Spencer,* & **Buckland,** *F. T.* *See* **Buckland & Walpole.**

Walpole, *Spencer,* & **Huxley,** *Thomas Henry.* Disease among the salmon of many rivers of England and Wales. Bull. U. S. Fish Comm. 1881 (1882), **1**, 429–448. 1882.1

Walpole, *Spencer,* & **Young,** *Andrew.* Report on the laws affecting salmon fisheries of the Solway firth. London, 1881. 26 p. 8°. 1881.1

Walpole, *Spencer,* **Young,** *Andrew,* & **Buckland,** *F. T.* *See* **Buckland, Walpole & Young.**

Walsh, *John.* The gillaroo or gizzard trout. Phil. Trans. Roy. Soc. London, 1774, **64**, 119–120. 1774.1

—— Of the electric property of the torpedo. Phil. Trans. Roy. Soc. London, 1774, **63**, 461–480. pl. 1774.2

—— Of torpedos found on the coast of England. Phil. Trans. Roy. Soc. London, 1774, **64**, 464–473. 1774.3

Walsh, *John,* **Seignette,** ——, & **Le Roy,** *J. B.* *See* **Le Roy, Walsh & Seignette.**

Walsh, *R. F.* Improved facilities for the capture, economic transmission, and distribution of sea fishes, etc. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **7**, pt. 4. 1883.1

Walter, *Emil.* Die Brutschädlinge der Fische und die Mittel zu ihrer Vernichtung. Neudamm [n. d.]

—— Das Plankton und die praktisch verwendbaren Methoden der quantitativen Untersuchung der Fischnahrung. Neudamm [n. d.]

—— Ueber fleischfressende Pflanzen. Allgem. Fischerei Zeitg., 1894, **19**, 358–361. 1894.1

—— Die natürliche Nahrung unserer Teichfische. Allgem. Fischerei Zeitg., 1896, **21**, 374–377. 1896.1

Walter, *E.*

—— Die formale Einteilung der Karpfenrassen. Deutsch. Fischerei Zeitg., 1900, **3**, 244–248; 257–263; 273–276. 1900.1

—— Zur Alterbestimmung des Karpfens nach den Schuppen. Fischerei Zeitg., Neudamm, 1901, **4**, 337–341; 353–357. 1901.1

—— Die Fischerei als Nebenbetrieb des Landwirtes und Forstmannes. Ausführliche Anweisung zum Fischereibetrieb, etc. Neudamm, 1903. xvi, 801 p. 1903.1

—— Die Karpfennutzung in kleinen Teichen; kurze Anleitung zur Ausnützung kleiner Dorf-, Haus-, Feld- und Waldteiche durch regelmässige Besetzung mit schnellwüchsigen Karpfen. 2. ed. Neudamm, 1903. 104 p. 1903.2

—— Zur Förderung der Kleinteichwirtschaft. Bericht über die im Jahre 1903 durch den Mecklenburgischen Fischerei-Verein veranstaltete Besetzung von 119 Kleinteichen mit schnellwüchsigen zweisömmerigen Karpfen. Im Auftrage des Mecklenburgischen Fischerei-Vereins erstattet. Neudamm, 1904. 60 p. 8°. 1904.1

—— Die Kleinteichwirthschaft; kurze Anweisung sur Aufzucht von Karpfen, Forellen, Schleien, Karauschen, Raubfischen und Krebsen in kleinen Teichen, Tümpeln, etc. Neudamm, 1906. 131 p. 24 figs. 8°. 1906.1

—— Das Gesetz von Minimum und das Gleichgewicht im Wasser. Einige allgemeine Betrachtungen aus dem Gebiete des Stoffkreislaufes im Wasser in seiner Anwendung auf die Fischereiwirtschaft. Arch. Hydrobiol., Stuttgart, 1909, **4**, 339–366. 1909.1

—— Die Karpfennutzung in kleinen Teichen. 3. ed. Neudamm, 1909. 103 p. 30 figs. & map. 8°. 1909.2

—— Aale in der Donau. Oesterr.-ungar. Fischerei Zeitg., 1910, **7**, 22–23. 1910.1

—— Der Flussaal. Eine biologische und fischereiwirtschaftliche Monographie. Neudamm, 1910. xi, 346 p. 122 figs. 8°. 1910.2

Review by E. Ehrenbaum in Der Fischerbote, 1911, 4–11; 41–44; 77–83.

—— Das Verhältnis von Ernährung und Körperform bei unseren Nutzfischen (In Aus deutscher Fischerei. Festschrift für E. Uhles, p. 6–17. Neudamm, 1911) 1911.1

—— Einführung in die Fischkunde unserer Binnengewässer. Eine Uebersicht über unsere mitteleuropäischen Süsswasserfische nach vorwiegend biologischen und fischereiwirtschaftlichen Gesichtspunkten. Leipzig, 1913. 364 p. 62 figs. 8°. 1913.1

—— Unsere Süsswasserfische. Eine Uebersicht über die heimische Fischfauna nach vorwiegend biologischen und fischereiwirtschaftlichen Gesichtspunkten. Leipzig, 1913. 50 p. 50 col. pls. 8° (Schmeil's naturwissenschaftliche Atlanten) 1913.2

Walter, *H.* Unser Hecht (*Esox lucius*) in Aquarium. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 40–41. 1912.1

Walter, *H. E.* Concerning rudimentary teeth in *Coregonus wartmanni.* Anat. Anz., 1894, **9**, 470. 1894.1

Walter, *J. A.* Lepidosiren [Protopterus] und ihre Stelle im System. Lotos, 1873, 23. Jahrg., 36–43. 1873.1

Walter, *Julius.* Einiges über den Organismus der Fische. Lotos, 1868. 18. Jahrg., 10–15; 53–59. 1868.1

Walther, *Friedrich Ludwig* [1759–1824] Lehrbuch der Forst-Physiographie, oder Naturbeschreibung deren Thiere und Gewächse, welche Objecte der Jagd- und Forstwissenschaft sind. 2 vols. in 5 pts. Weilburg, 1813–20. 8°. 1820.1

Vol. ii, Fische.

Walther, *G.* Ueber die Schalenhäute von *Protopterus annectens.* Zeitschr. Physiol. Chem., 1889, **13**, pt. 5, 464–476. 1889.1

Walther, *Johannes Kuno* [1860 —] Die Entwicklung der Deckknochen am Kopfskelett des Hechtes (*Esox lucius*) Jena. Zeitschr. Naturw., 1883, **16**, 59–84. 2 pls. 1883.1

—— Bionomie des Meeres. Jena, 1893. 1893.1

—— Entstehung und Besiedelung der Tiefseebecken. Naturw. Wochenschr., 1904, **3**. 1904.1

—— Die Fauna der Solnhofener Plattenkalke, bionomisch betrachtet (In Festschrift zum siebenzigsten Geburtstage von Ernst Haeckel, p. 133–214. pl. & figs. Jena, 1904) 1904.2

Contains a faunal list of the Kimmeridgian (Upper Jurassic) fish-fauna of Solenhofen, Bavaria.

—— Geschichte der Erde und des Lebens. Leipzig, 1908. 570 p. illust. 8°. 1908.1

Waltl, *Joseph.* Die Fische um Passau. Correspbl. Zool. Mineral. Ver. Regensburg, 1872, 26. Jahrg., 74–79. 1872.1

Walton, *Chas. L.* The shore fauna of Cardigan bay. Journ. Mar. Biol. Assoc., 1913, n. s. **10**, 102–113. 1913.1

Walton, *Izaak* [1593–1683] The compleat angler, or contemplative man's recreation. In two parts. By the ingenious and celebrated Mr. Isaac Walton and Charles Cotton, Esq. I. Being a discourse of rivers, fish-ponds, fish and fishing. Instructions how to angle for a trout or grayling in a clear stream. Correctly and very accurately published. 2 pts. London, 1759. pt. 1, xxvi, 216 p.; pt. 2, p. 217–340. 8 pls. 12°. 1759.1

This is the first post-Linnæan edition. The *editio princeps* was published in May, 1653. The best-known later edition of the Angler is that of J. Major, 1824. The book was edited by Andrew Lang in 1896, and various modern editions have appeared. The standard biography is that by Sir Harry Nicolas, prefixed to an edition of the Angler published in 1836.

Walton, *Izaak,* & **Cotton,** *Charles.* Chronological hand-list of various editions of the complete angler, 1593–1893 [Compiled by Daniel B. Fearing] New York, 1893. 26 p. 8°. 1893.1

Exhibited at the Grolier Club, New York, December 9–29, 1893.

Walton, *L. B.* The relation of variability to food supply as illustrated by the white daisy, *Chrysanthemum leucanthemum* L., and the yellow perch, *Perca flavescens* Mitch. Science, 1907, n. s. **25**, 728. 1907.1

Wandolleck, *Benno.* Pisces für 1895 [Jahresbericht] Arch. Naturgesch., 1907, 68. Jahrg., **2**, 1–43. 1907.1

—— Pisces für 1896 [Jahresbericht] Arch. Naturgesch., 1907, 68. Jahrg., **2**, 43–84. 1907.2

For similar reviews of the literature *see* Strand, E., 1905.1 and 1907.1, *supra. Also,* Wundsch, H. H., 1912.1, *infra.*

Wandolleck, *Benno,* **Philippi,** *Erich,* & **Weltner,** *W.* Pisces für 1893 [Jahresbericht] Arch. Naturgesch., 1906, 66. Jahrg., 183–238. 1906.1

Wanger, *C.* Ueber das Grössenverhältniss einiger Brutfische und der Schoch'sche Mess-Apparat. Schweiz. Fischerei Zeitg., 1893, **1**, 151. Also separate; Pfäffikon-Zürich, 1893. 1 p. 8°. 1893.1

—— Der Seesaibling-Rötel. *Salmo salvelinus* L., *S. umbla* L., l'omble chevalier. Il salmerino. The red-trout. Schweiz. Fischerei Zeitg., 1896, **4** (*Suppl.*), no. 25, 223–239. 1896.1

Wanke, —— Einiges über Karpfenzucht. Allgem. Fischerei Zeitg., 1901, **26**, 496–498. 1901.1

—— Zur Kieserbrütung. Allgem. Fischerei Zeitg., 1907, 32. Jahrg., 472–474. 1907.1

Wappäus, *J. E.* Das Kaiserreich Brasilien, geographisch und statistisch dargestellt. Leipzig, 1871. 8°. 1871.1

Fische, p. 1355–1358. Fischerei, p. 1419–1421.

Reprinted from Stein's Handbuch der Geographie. 7. ed.

Ward, *D. P.,* & **Eigenmann,** *Carl H. See* **Eigenmann** & **Ward.**

Ward, *E. D.* Trout culture in Mendocino. Overland Monthly, 1900, **35**, 545–553. 1900.1

Ward, *F. M.* Young salmon in northern New Jersey. Bull. U. S. Fish Comm. 1886 (1887), **6**, 345. 1887.1

Ward, *Francis.* The five senses in fishes. I. Sight. Journ. Ipswich Field Club, 1908, **1**, 3–4. 1908.1

—— Markings and colors in fish. How they protect their wearers. Scient. Amer. Suppl., 1908, **66**, 297–298. 6 figs. 1908.2

—— Marvels of fish life as revealed by the camera. London, 1911. xiv, 196 p. 1911.1

—— Reflection as a concealing and revealing factor in aquatic and subaquatic life. Nature, 1913, **91**, 596–599. 1913.1

Pigmentation of perch and trout, p. 597–598.

Ward, *Henry Baldwin* [1865 —] On the parasites of the lake fish. I. Notes on the structure and life history of *Distoma opacum,* n. sp. Proc. Amer. Micr. Soc., 16. meet., 1894, **15**, 173–182. pl. 1894.1

—— A preliminary report on the worms (mostly parasitic) collected in lake St. Clair in the summer of 1893. Bull. Michigan Fish Comm., 1894, no. 4, 49. 1894.2

Record of parasites found in fish of twenty species.

—— Some notes on the biological relations of the fish parasites of the Great Lakes. Proc. Nebraska Acad. Sci., 1894, **4**, 8–11. 1894.3

Ward, *H. B.*

—— A biological examination of lake Michigan in the Traverse bay region. Bull. Michigan Fish Comm., 1896, no. 6. 1896.1

Also issued as an appendix to the twelfth biennial report of the Commission, 1897.

—— The whitefish (*Coregonus albus*) Bull. Michigan Fish. Comm., 1896, 18–29. 1896.2

—— Fish food in Nebraska streams. Studies Zool. Lab. Univ. Nebraska, 1898, no. 28, 272–277. 1898.1

—— Aquicultural experiment stations and their work. Trans. Amer. Fisheries Soc. 1898 (1899), 125–132. 1899.1

—— Notes on the parasites of the lake fish. III. On the structure of the copulatory organs in Microphallus, n. g. Proc. Amer. Micr. Soc., 23. meet., 1901, **22**, 175–187. pl. 1901.1

—— Some notes on fish food in the lakes of the Sierras. Trans. Amer. Fisheries Soc., 1903, 218–220. 1903.1

—— The influence of parasitism on the host. Science, 1907, n. s. **25**, 201–218. — Proc. Amer. Assoc. Adv. Sci., 56. meet., 1907, 489–523. 1907.1

Frequent reference to fish.

—— Some points in the migration of Pacific salmon as shown by its parasites. Stud. Zool. Lab. Univ. Nebraska, 1908, no. 92. 9 p. — Trans. Amer. Fisheries Soc., 92–102. 1908.1

—— The influence of hibernation and migration on animal parasites. Proc. 7. Intern. Zool. Congr., Boston, 1909. 12 p. 1909.1

Compares conditions in marine, migratory and freshwater fishes, as regards distribution, occurrence and abundance of parasites.

—— The factors which control the leaping of the Pacific salmon. Science, 1910, n. s. **31**, 835–836. 1910.1

—— Internal parasites of the Sebago salmon. Bull. Bureau Fisheries, 1910, **28**, 1151–1194. pl. 1910.2

—— The leaping of the Pacific salmon. Science, 1910, n. s. **31**, 474. 1910.3

—— Notes on the leaping of the Pacific salmon. Trans. Amer. Fisheries Soc. 1909 (1910), 162–167. — Fish. Gazette, **28**, 737–738. 1910.4

—— Some parasites of the sleeper shark in Icy straits, Alaska. Science, 1910, n. s. **31**, 836. 1910.5

—— The distribution and frequence of animal parasites and parasitic diseases in North American freshwater fish. Trans. Amer. Fisheries Soc. 1911 (1912), 207–241. 1912.1

—— The preservation of the American fish-fauna. Trans. Amer. Fisheries Soc. 1912 (1913), 157–170. 1913.1

Ward, *John* [1837–1906] The fossil fishes of the north Staffordshire coal field. Trans. Midland Sci. Assoc., 1870, pt. 2, 1–23. 1870.1

—— Additional notes on a section of strata at Weston Sprink. Rept. Trans. North Staffordshire Club, 1904–05, **39**, 122–128. 1904.1

—— Palæontology of the Pottery coalfield. Mem. Geol. Surv. United Kingdom, London, 1905, pt. 3, 285–357. tables. 1905.1

—— Contributions to the geology and palæontology of the Cheadle coalfield. Rept. Trans. North Staffordshire Club, 1906, **40**, 102–137. 1906.1

Ward, *John,* & **Stobbs,** *J. T.* A newly discovered fish-bed in the Cheadle coalfield; with notes on the distribution of fossil fishes in that district. Rept. Trans. North Staffordshire Club, 1906, **40**, 87–101. pl. 1906.1

Ward, *Lester Frank* [1841–1913] List of water plants for carp ponds. Bull. U. S. Fish Comm. 1882 (1883), **2**, 22–25. 1883.1

—— Marsh and aquatic plants of the northern United States, many of which are suitable for carp ponds. Bull. U. S. Fish Comm. 1883, **3**, 257–266. 1883.2

Ward, *M. F.,* & **Pittier,** *Henri François.* *See* **Pittier & Ward.**

Ward, *Ogier.* On the fossil fishes of this district. Ann. Rept. Eastbourne Nat. Hist. Soc., 1877, **10**, 1–3. 1877.1

Ward, *R. H.* Ovum and testis of a lamprey. Amer. Monthly Micr. Journ., 1897, **18**, no. 6, 213–217. Abstract in Journ. Roy. Micr. Soc., 1897, 517. 1897.1

Ward, *Samuel.* Natural history of fishes. 2 vols. London, 1770. 12°. 1770.1

—— A modern system of natural history, containing accurate descriptions, and faithful histories of animals, vegetables and minerals; together with their properties, and various uses in medicine, mechanics, manufactures, etc. 12 vols. London, 1775–76. 114 pls. 12°. 1775.1

—— The natural history of fishes. Illustrated with a great variety of copper-plates, accurately drawn from nature, beautifully engraved. 2 vols. in 1. London, 1776. 1776.1

Evidently from a series of books on natural history. The second volume concludes with the statement: "End of vol. II. of the natural history of fishes," followed by an index of the two volumes.

Ward, *Swinburne.* Notes on the "vielle" (*Batrachus gigas* Gthr.) Ann. Mag. Nat. Hist., 1869, 4. ser. **3**, 352–353. 1869.1

Wardlaw-Thompson, *W.* *See* **Thompson,** *W. Wardlaw.*

Warelius, *Antero.* Kertomus tyrvääm pitäjästä 1853. Suomi, 1855, **14**, 1–194. 1855.1

Warington, *Robert.* Observations on the habits of the stickleback (being a continuation of a previous paper) Ann. Mag. Nat. Hist., 1855, 2. ser. **16**, 330–332. 1855.1

Warman, *Philip Creveling* [1859 —] Bibliography and index of the publications of the U. S. Geological Survey. Bull. U. S. Geol. Surv., 1893, no. 100. 495 p. 1893.1

—— Catalogue and index of publications of United States Geological Survey, 1880–1901. Bull. U. S. Geol. Surv. 1901, no. 177. 858 p. 1901.1

See also references under Weeks, F. B., 1896.3, *infra.*

—— Catalogue and index of publications of United States Geological Survey, 1901 to 1903. Bull. U. S. Geol. Surv. 1903, no. 215. 234 p. 1903.1

Warner, *J. S.* Catching fish in a creek in Tennessee by a watersnake. Bull. U. S. Fish Comm. 1884, **4**, 220. 1884.1

Warnimont, *Johann.* Das Rothauge. *Leuciscus* [*Cyprinus*] *rutilus.* Bull. Soc. Sci. Nat. Luxembourg, 1865, **8**, 321–358. 1865.1

—— *Phoxinus lævis* [*Leuciscus phoxinus*] Die Pfrille, Pfelle, Elritze. Le véron. The minnow. Bull. Soc. Sci. Nat. Luxembourg 1866 (1867), **9**, 209–285. 1867.1

—— Der Aesche. L'ombre. The grayling. *Thymallus vexillifer* [*T. vulgaris*] Bull. Soc. Sci. Nat. Luxembourg 1869 (1870), **11**, 1–48. 1870.1

Warpachowsky, *N. A.* *See* **Varpakhovskiĭ,** *N. A.*

Warren, *B. H.* Some birds and mammals which destroy fish and game. Rept. Pennsylvania Comm. Fisheries, 1897, doc. no. 17. 412 p. 181 pls. 1897.1

Warren, *Ernst.* On the teeth of Petromyzon and Myxine. Quart. Journ. Micr. Sci., 1902, n. s. **45**, 631–636. pl. 1902.1

Warren, *H. Everett.* Anatomy of the ear of the dogfish (*Galeus canis*) Preliminary paper. Trans. New York Acad. Sci., 1896, **15**, 176–182. 1896.1

Warren, *John C.* [1778–1856] The introduction of foreign fish into our waters. Proc. Boston Soc. Nat. Hist. 1851–54 (1854), **4**, 287. 1854.1

Warren, *Robert.* Dogfish on the coasts of Sligo and Mayo. "Schools" of dogfish; their destructiveness of mackerel and herring. Zoologist, 1882, 3. ser. **6**, 269. 1882.1

—— Extraordinary run of herrings in the Moy estuary. Irish Naturalist, 1898, **7**, no. 1, 19. 1898.1

—— Blue sharks in Killala bay. Irish Naturalist, 1900, **9**, 48; 108–109. 1900.1

—— Porbeagle shark and tope in Killala bay. Irish Naturalist, 1900, **9**, 292–293. 1900.2

—— Great run of herrings in Killala bay and the Moy estuary. Irish Naturalist, 1905, **14**, 70. 1905.1

—— Remarkable change in habits of the herrings visiting Killala bay, county Mayo. Zoologist, 1906, 4. ser. **10**, 105–107. 1906.1

Wartmann, *Bernhard.* Beschreibung und Naturgeschichte des Blaufelchens [*Coregonus wartmanni*] Beschäft. Ges. Naturf. Freunde Berlin, 1777, **3**, 184–213. 1777.1

—— Bodensee und Seealpsee. St. Gallen, 1777–1778. 1777.2

—— Alpforelle aus dem Seealper See, *Salmo alpinus.* Beschäft. Ges. Naturf. Freunde Berlin, 1783, **4**, 67–77. Also separate; Berlin, 1783. 10 p. 8°. 1783.1

—— Auszug eines Briefes (über Salmonen) Schrift. Ges. Naturf. Freunde Berlin, 1783, **4**, 431–433. 1783.2

Wartmann, *B.*

—— Nachricht von der Alpforelle aus dem Seealper See (*Salmo alpinus*) [Salvelinus] Schrift. Ges. Naturf. Freunde Berlin, 1783, **4**, 69–77. 1783.3

—— Von den Rheinanken und Illanken [*Salmo illanca*] Beschäft. Ges. Naturf. Freunde Berlin, 1783, **4**, 55–68. 1783.4

Wartmann, *Bernhard,* & **Schrank,** *Franz von Paula von. See* **Schrank** & **Wartmann.**

Wartmann, *Friedrich Bernhard* [1830–1902] Unsere Fischerei. Ber. Thätigkeit St. Gallisch. Naturw. Ges. 1867–68 (1868), **9**, 133–160. 1868.1

Warwell, *H. C.* Eels feeding on the eggs of Limulus. Amer. Naturalist, 1897, **31**, 347–348. 1897.1

Washburn, *F. L.* On the mortality of fish at lake Mille Lac, Minnesota. Amer. Naturalist, 1886, **20**, 896–897. 1886.1

—— Deep sea dredging on the U. S. steamer "Albatross." Trans. Amer. Fisheries Soc. 1886 (1887), 17–21. 1887.1

Washburn (*junior*), *J.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1887 (1879), **5**, 388. 1879.1

Washburn, *Margaret F.,* & **Bentley,** *I. Madison.* The establishment of an association involving color-discrimination in the creek chub, *Semotilus atromaculatus.* Journ. Comp. Neurol., 1906, **16**, 113–125. 1906.1

Washington, *John.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 430. 1879.1

Wasmann, *Erich.* Die heilige Hildegarde von Bingen als Naturforscherin (In Festschrift Georg von Hertling zum siebenzigsten Geburtstag am 31. Aug. 1913 dargebracht von der Görres-Gesellschaft zur Pflege der Wissenschaft in katholischen Deutschland, p. 459–475. Kempton & München, 1913) 1913.1

Freshwater fishes are considered.

—— Hildegard von Bingen als älteste deutsche Naturforscherin. Biol. Centralbl., 1913, **33**, 278–288. 1913.2

Fishes of the Nahe and others described in the "Physica" of Saint Hildegarde are considered. The first printed edition of this 12th-century work appeared in 1533. *See* references under Geisenheyner, L., 1912.1. *See also* Pfeiffer, F., 1861.1, and Schulz, H., 1897.1, *supra.*

Wasteneys, *Hardolph,* & **Loeb,** *Jacques. See* **Loeb** & **Wasteneys.**

Watanabe, *M.* Nishin no uroko to sono nenrei [The scales and the age of *Clupea pallasii* C. & V.] Zool. Mag. Tokyo, 1913, **25**, 133–145. 1913.1

Watase, *S.* On the caudal and anal fins of gold fishes. Journ. Coll. Sci. Japan, 1887, **1**, 247–267. 3 pls. 1887.1

—— On the caudal and anal fins of gold-fishes. Journ. Coll. Sci. Japan, 1894, **1**, 247–267. 3 pls. & 16 figs. 1894.1

—— On the physical base of animal phosphorescence. Biol. Lect. Mar. Biol. Lab. Woods Hole, 1895, 101–118. fig. 1895.1

Waterbury, *E. B.,* & others. Obstructions to salmon in Pend d'Oreille river, Montana, requiring a fishway or removal of falls. Bull. U. S. Fish Comm. 1883, **3**, 421–423. 1883.1

Waterhouse, *Charles Owen* [1843–1917] For obituary notice *see* Nature, 1917, **91**, 455–456.

—— Index zoologicus. An alphabetical list of names of genera and subgenera proposed for use in zoology as recorded in the "Zoological Record" 1880–1900 together with other names not included in the "Nomenclator zoologicus" of S. H. Scudder. London, 1902. 421 p. 8°. 1902.1

See also references under Sharp, D., 1893.1, *supra.*

—— Supplementary list of generic names. London, 1904. 8 p. 8°. 1904.1

—— Index zoologicus, no. ii. An alphabetical list of names of genera and subgenera proposed for use in zoology as recorded in the "Zoological Record," vols. 38–47 inclusive (1901–1910) etc. London, 1912. iv, 324 p. 8°. 1912.1

Waters, *Bertram H.* Some additional points on the primitive segmentation of the vertebrate brain. Zool. Anz., 1891, **14**, 141–144. 1891.1

—— Primitive segmentation of the vertebrate brain. Reference to teleost (cod) etc. Quart. Journ. Micr. Sci., 1892, **33**, 1–19. pl. 1892.1

Waterton, *Charles* [1782–1865] Wanderings in South America, the north-west of the United States and the Antilles, in the years 1812, 1816, 1820 and 1824. vii, 326 p. illust. London, 1885. 1885.1

Other editions 1879, 1881 and 1885.

Watkins, (*Rev.*) *M. G.* Gleanings from the natural history of the ancients. London, 1896. 258 p. 8°. 1896.1

Chap. xv. Ancient fish-lore.

—— Grayling in the Monnow. Trans. Woolhope Natural. Field Club 1893–94 (1896), 201–205. 1896.2

Watson, *David Meredith Seares* [1886—] [On Megalichthys, etc.] Mem. Proc. Manchester Lit. Phil. Soc., 1912, **57**, 1–14. 1912.1

Watson, *David Meredith Seares,* & **Day,** *Henry.* Notes on some Palæozoic fishes. Mem. Proc. Manchester Lit. Phil. Soc., 1916, **60**, pt. 1, no. 2. 48 p. 3 pls. & 9 figs. 1916.1

Discusses the structure and phylogenetic relations of Devonian ganoids (Rhipidistia) and Dipnoi. Pentlandia, n. g., is established upon *Dipterus macropterus* Traq.

Watson, *Edna E.* The genus Gyrocotyle, and its significance for problems of cestode structure and phylogeny. Univ. Calif. Public. (*Zool.*), 1911, **6**, 353–468. 16 pls. 1911.1

Watson, *G. W.* Ankylosis of human teeth to the jaw. Proc. Scott. Micr. Soc., 1900, **3**, 82–84. 1900.1

Includes comparative notes on attachment in lower vertebrates.

Watson, *Henry.* Account of the stomach of the Gillaroo trout. In a letter to Sir John Pringle. Phil. Trans. Roy. Soc., 1775, **64**, 121–123. 1775.1

Watson, *W. J.* Salmon and trout fishing in Ireland. Dublin, 1910. 208 p. 12°. 1910.1

Watson (*junior*), *William.* An account of the blue shark together with a drawing of the same [*Squalus carcharias glaucus*] Phil. Trans. Roy. Soc. London, 1779, **68**, pt. 2, 789–790. figs. 1779.1

Watson, *Winslow C.* The salmon of lake Champlain and its tributaries. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 531–540. 1876.1

—— A supposed new fish in lake Champlain. Forest & Stream, 1877, **8**, 17. 1877.1

Watt, *William.* The currents, temperatures and other physical conditions of the sea in relation to reproduction, growth and migration of fish, etc. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **11**, pt. 19. 1883.1

—— The history and statistics of the herring fishing in Norway and Sweden (In Fish and fisheries, edited by David Herbert, p. 303–315. Edinburgh & London, 1883) 1883.2

—— The natural history of the herring; with special reference to its migrations. No. 2 (In Fish and fisheries, edited by David Herbert, p. 51–64. Edinburgh & London, 1883) 1883.3

Wattenwyl, *F. von.* Die Fischzucht in der Schweiz. Genf [n. d.] 3 p. 12°.

Watterson, *H.* Superiority of American game and fish. Forest & Stream, 1877, **7**, 362. 1877.1

Watts, *H. E.* Introduction of salmon into Australia. The Athenæum, 1868, no. 2107, 391–392. 1868.1

Way, *J. H.* Result of propagating trout. Rept. U. S. Fish Comm. 1878 (1880), **6**, 936. 1880.1

Weaver, *James Riley.* The sea fisheries of Austro-Hungary from 1877 to 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1197–1198. 1885.1

Webb, *C. F.* Fossil teeth. Trans. Liverpool Geol. Assoc., 1888, **7**, 95. 1888.1

Webb, *J. G.* The mortality of fish in the gulf of Mexico. Bull. U. S. Fish Comm. 1886, **6**, 11–13. 1886.1

Webb, *J. S.* On a fish of the genus Bovichthys, caught near Dunedin. Trans. Proc. New Zealand Inst. 1872 (1873), **5**, 480. 1873.1

Webb, *Philip Barker,* & **Berthelot,** *Sabin.* Histoire naturelle des îles Canaries. 3 vols. Paris, 1835–50. 4°. 1835.1

Ichthyologie, par A. Valenciennes, vol. ii, pt. 2, 1–109. 26 pls.

Webb, *W. F.* Five years' experience in artificial fish-breeding, showing in what waters trout will and will not thrive, with some remarks on fish and British fisheries. Rept. Brit. Assoc. Adv. Sci., 39. meet. 1869 (1870), 118. 1870.1

Webb, *W. M.* The ears of fishes. Knowledge, London, 1905, 59–61. 8 figs. 1905.1

Webber, *Samuel.* On some freshwater fishes containing nodular bodies embedded in the fins and tail. Proc. Acad. Nat. Sci. Philad., 1852, **6**, 118. 1852.1

—— Fish-culture in New Hampshire. Forest & Stream, 1878, **10**, 379. 1878.1

Webber, *S.*

Naturalizing the California salmon. Chicago Field, 1878, **10**, 260. 1878.2

—— Salmon and alewives in the Merrimac. Forest & Stream, 1878, **10**, 358. 1878.3

—— Salmon in the Merrimac. Forest & Stream, 1878, **10**, 442. 1878.4

—— Fish-culture in New Hampshire. Chicago Field, 1879, **11**, 372. Forest & Stream, 1879, **13**, 805. 1879.1

Weber, *A.* Les phénomènes de torsion de l'ébauche cardiaque chez les lophobranches. C. R. Mém. Soc. Biol. Paris, 1906, **61**, 253–254. — Réun. Biol. Nancy, 1906, 53–54. 1906.1

—— Les premiers stades du développement de la vessie natatoire chez les lophobranches. C. R. Assoc. Anat., 1906, **8**, 90–93. 2 figs. 1906.2

—— L'origine de la vessie natatoire chez les lophobranches. Bibliogr. Anat., Nancy, 1906, **15**, 194–214. 9 figs. 1906.3

—— Recherches sur quelques stades du développement du cœur des lophobranches. Bibliogr. Anat. Nancy, 1906, **15**, 266–287. 8 figs. 1906.4

—— Recherches sur quelques stades du développement du cœur de la raie. C. R. Assoc. Anat., 1908, **10**, 10–14. 1908.1

—— L'origine de l'hypocorde chez les sélaciens. C. R. Mém. Soc. Biol Paris, 1913, **74**, 779–781. 1913.1

—— Phénomènes de dégénérescence dans les cellules en activité caryocinétique du tube nerveux d'embryons de sélaciens. Anat. Anz., 1913, **44**, 356–364. pl. 1913.2

—— Sur l'existence de métanucléoles durant les premières phases du développement embryonnaire. C. R. Mém. Soc. Biol. Paris, 1913, **74**, 865–867. 1913.3

Weber, *C. O.* Ueber Fische aus der Gegend von Trier. Verh. Naturhist. Ver. Preuss. Rheinl. Westphal., 1862, 19. Jahrg. (n. s. 9. Jahrg.), 48–49. 1862.1

Weber, *Ernst Heinrich* [1795–1878] De aure piscium. Isis (Oken), 1821, 1059–1083. — Bull. Soc. Philom. Paris, 1821, 118–122. — Ann. Phil. (Thomson), **3**, 321–325. 1821.1

—— Beim Häring durchbohrt der Sehnerv des rechten Auges den des Linken. Arch. Anat. Physiol., 1827, 317. 1827.1

—— Disposition remarquable des nerfs optiques chez le hareng. Arch. Anat. Physiol., 1827, no. 3. 1827.2

—— Knoten und unpaare Faden, mit denen sich das Rückenmark bei einigen Fischen endigt, namentlich beim *Cyprinus carpio.* Arch. Anat. Physiol., 1827, 316–317. 1827.3

—— Sur le foie de la carpe (*Cyprinus carpio*) qui paraît en même temps remplir les fonctions du pancréas. Arch. Anat. Physiol., 1827, no. 3. fig. 1827.4

—— Sur quatre nerfs longitudinaux, procédant du trijumeau et du nerf vague, et parcourant toute la longueur du tronc, chez quelques poissons. Arch. Anat. Physiol., 1827, no. 3. fig. — Bull. Sci. Nat. (Férussac), **15**, 168. 1827.5

—— Sur un ganglion et un filet nerveux impair qui termine la moëlle vertébrale chez quelques poissons, notamment chez la carpe. Arch. Anat. Physiol., 1827, no. 3. fig. — Bull. Sci. Nat. (Férussac), **15**, 169. 1827.6

—— Ueber das Geschmacksorgan des Karpfen und den Ursprung seiner Nerven. Arch. Anat. Physiol., 1827, 309–315. fig. — Isis (Oken), **5**, 397. 1827.7

—— Ueber die Leber von *Cyprinus carpio*, die zugleich die Stelle des Pancreas zu vertreten scheint. Arch. Anat. Physiol., 1827, 294–299. 1827.8

—— Ueber vier Längennerven bei einigen Fischen, von denen zwei von dem Trigeminus und zwei von Vagus entspringen, die die ganze Länge des Rumpfes durchlaufen. Arch. Anat. Physiol., 1827, 303–308. 1827.9

—— Ueber die Gestalt des Gehirns der Schleie, *Cyprinus tinca*, im Alter von einem Jahre und bei dem erwachsenen Thiere. Arch. Anat. Physiol., 1846, 478–479. 1846.1

Weber, *Fr. Ernst.* Ländliche Teichwirtschaft. Praktische Winke für bäuerliche Teichbesitzer. Stuttgart, 1901. iii, 73 p. 1901.1

Weber, *Johann Carl.* Abbildungen der Fische, welche in den Flüssen und Seen von Bayern vorkommen. München, 1851. 8°. 1851.1

Weber, *Johann Carl,* & **Kranz,** *C. A.* Die Fische Deutschlands und der Schweiz in . . . Abbildungen . . . von

J. C. Weber. 2. Auflage. Mit systematisch geordnetem Text von . . . C. A. Kranz. München, 1870. 61 p. illust. 8°. 1870.1

Weber, *Max* [*Carl Wilhelm*] [1852 —] Ueber die Nahrung der *Alausa vulgaris* und die Spermatophore von *Remora velox* Lilj. Arch. Naturgesch., 1876, 42. Jahrg., **1**, 169–178. pl. 1876.1

—— Chinesische Fischerei. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 206–207; 249–250; 288–289; 314–315. 1880.1

—— Ueber Hermaphroditismus bei Fischen. Nederl. Tijdschr. Dierk. Ver. Amsterdam, 1884, pt. 1, 21–43. pl. *Ibid.*, 1885–87, 128–134. 1884.1

—— Die Abdominalporen der Salmoniden nebst Bemerkungen über die Geschlechtsorgane der Fische. Morphol. Jahrb., 1886, **12**, 366–406. pl. & 2 figs. 1886.1

—— Het ovarium der ansjovis in zijn verschillende toestanden (In Bijdragen tot de kennis der levenswijze en der voortplanting van de ansjovis, p. 21–27. Verslag Staat Nederl. Zeevisscherijen over 1886) 1886.2

—— Voedsel der ansjovis (In Bijdragen tot de kennis der levenswijze en der voortplanting van de ansjovis, p. 38–40. Verslag Staat Nederl. Zeevisscherijen, 1886) 1886.3

—— Abdominalporiën bij teleostiërs. Tijdschr. Nederl. Dierk. Ver., 1887, 2. ser. **1**, cxxxii. 1887.1

—— Erwiederung an Herrn Cunningham (Myxine) Zool. Anz., 1887, no. 253, 318–321. 1887.2

—— Over den bouw der geslachtsorganen van *Myxine glutinosa*. Tijdschr. Nederl. Dierk. Ver., 1887, 2. ser. **1**, ccxiii–ccxvi. 1887.3

Review of J. T. Cunningham's paper "On the structure and development of the reproductive elements in *Myxine glutinosa* L."

—— Die Süsswasser-Fische des indischen Archipels, nebst Bemerkungen über den Ursprung der Fauna von Celebes (In Zoologische Ergebnisse einer Reise in niederländisch Ost-Indien herausgegeben von . . . M. Weber, Bd. iii, p. 405–476. Leiden, 1890. illust. 8°) 1890.1

—— Eigenthümliche Lagerung der Leber und Niere bei Siluroiden. Zool. Ergebn. Reise Nied. Ost-Ind., 1891, **1**, 355–364. pl. 1891.1

—— *Lamna cornubica*. Tidjschr. Nederl. Dierk. Ver., 1892, 2. ser. **4**, iv. 1892.1

—— Over de zoetwatervisschen van den Indischen Archipel. Tijdschr. Nederl. Dierk. Ver., 1894, 2. ser. **4**, lxiii. 1894.1

—— Demonstratie van dieren tijdens zijne reis in Zuid-Afrika bijeengebracht. Tijdschr. Nederl. Dierk. Ver., 1895, 2. ser. **5**, vii. 1895.1

—— Fische von Ambon, Java, Thursday island, dem Burnett-Fluss und von der Süd-Küste von Neu-Guinea (In Zoologische Forschungsreisen in Australien und dem malayischen Archipel; mit Unterstützung des Herrn Dr. Paul von Ritter ausgeführt in den Jahren 1891–1893 von Dr. Richard Semon, Bd. v, p. 257–276. fig. Jena, 1895) 1895.2

—— *Galaxias africanus* [*Galaxias capensis* Steind.] Tijdschr. Nederl. Dierk. Ver. 1895, 2. ser. **5**, xxxix. 1895.3

—— Beiträge zur Kenntniss der Fauna von Süd-Afrika. I. Zur Kenntniss der Süsswasser-Fauna von Süd-Afrika. Zool. Jahrb. (*Syst. Abth.*), 1897, **10**, 135–199. pl. & 2 figs. 1897.1

—— On the origin of the fauna of Celebes. Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 121–136. 1899.1

—— Reference to phosphorescent organs (teleosts) strength of light, surface and shallow water forms. Bull. Siboga Exped. Leiden, 1901, 107–110. 1901.1

—— (*editor*) Siboga-Expeditie. Uitkomsten op zoologisch, botanisch, oceanographisch en geologisch gebied verzameld in nederlandsch Oost-Indië, 1899–1900, aan boord H. M. "Siboga" onder commando van . . . G. F. Tydeman uitgegeven door . . . M. Weber. Monographs. Leiden, 1901. 4°. 1901.2

Introduction et description de l'expédition. No. 1. Leiden, 1902. 159 p. figs & maps.

Die Fische, von M. Weber. No. 57. Leiden, 1913. 710 p. 12 pls. & figs.

—— Voorkomen van *Xiphias gladius* in de Zuiderzee. Tijdschr. Nederl. Dierk. Ver., 1902, 2. ser. **7**, xli. 1902.1

—— *Fierasfer sluiteri*, n. sp. Tijdschr. Nederl. Dierk. Ver., 1905, 2. ser. **9**, iv. 1905.1

—— De vischfauna van Nieuw-Guinea. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1906–07, **15**,

Weber, *M.*
368–372. — Proc. Sci. Akad. Wet. Amsterdam, **9**, 462–465. 1906.1

—— Kleur en teekening bij *Therapon theraps.* Tijdschr. Nederl. Dierk. Ver., 1907, 2. ser. **10**, lvii. 1907.1

—— Zoetwater vischfauna van de Aroe-eilanden. Tijdschr. Nederl. Dierk. Ver., 1907, 2. ser. **10**, liii. 1907.2

—— Eine zoogeographische Prophezeiung. Zool. Anz., 1907, **32**, 401–404. 1907.3

—— Süsswasserfische von Neu-Guinea; ein Beitrag zur Frage nach dem früheren Zusammenhang von Neu-Guinea und Australien (In Nova Guinea; résultats de l'expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903 sous les auspices de Arthur Wichmann, vol. v (*Zool.*), pt. 2, p. 201–267. 3 pls. Leiden, 1908) 1908.1

First title-page is in Dutch.

—— Visschen van Nieuw Guinea. Tijdschr. Nederl. Dierk. Ver., 1908, 2. ser. **10**, xxxiv. 1908.2

—— Diagnosen neuer Fische der Siboga-Expedition. Notes Leyden Mus., 1909, **31**, 143–169. 1909.1

—— 1. *Malacocephalus lævis* Lowe. 2. *Macrorhamphosus schoteli*, n. sp. 3. *Platyrhina schönleini* Müller u. Henle. Tijdschr. Nederl. Dierk. Ver., 1909, 2. ser. **11**, xlvi. 1909.2

—— Eine neue Art von Macrorhamphosus und Revision dieses Genus. Tijdschr. Nederl. Dierk. Ver., 1909, 2. ser. **11**, 71–79. pl. 1909.3

—— Broedverzorging van *Kurtus gulliveri.* Tijdschr. Nederl. Dierk. Ver., 1910, 2. ser. **12**, xxiii. 1910.1

—— Een nieuw geval van ouderlijke zorg voor de nakomelingen bij visschen [A new case of parental care among fishes] Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1910, **19**, 629–634. 2 figs. — Proc. Sci. Akad. Wet. Amsterdam, **13**, 583–587. 2 figs. 1910.2

—— Neue Fische aus niederländisch Süd-Neu-Guinea. Notes Leiden Mus., 1910, **32**, 225–230. pl. 1910.3

—— Die Fische der Aru- und Kei-Inseln. Ein Beitrag zur Zoogeographie dieser Inseln. Abh. Senckenberg. Nat. Ges. Frankfurt-a.-M., 1911, **34**, 1–49. 2 pls. & 11 figs. 1911.1

New species are described of Pseudomugil, Rhombatrachus, Apogon, Eleotris, Gobius and Bostrychus.

—— Versuch einer Revision der indopacifischen Anguillidæ. Zool. Jahrb. (*Suppl.*), 1912, **15**, 563–596. 8 figs. & 3 tables. 1912.1

—— Die Fische der Siboga-Expedition. Leyden, 1913. 710 p. 12 pls. 123 figs. 4°. 1913.1

—— Neue Beiträge zur Kenntnis der Süsswasserfische von Celebes. Bijdr. Dierk. Amsterdam, 1913, 197–213. 8 figs. 1913.2

—— Süsswasserfische aus Niederländisch Süd- und Nord-Neu-Guinea (In Nova Guinea. Résultats de l'Expédition Scientifique Néerlandaise à la Nouvelle-Guinée. Zoologie, vol. ix, livr. 4, p. 513–613. 3 pls. Leide, 1913. 4°) 1913.3

Weber, *Max* [*Carl Wilhelm*], & **Beaufort,** *L. F. de.* The fishes of the Indo-Australian archipelago. 3 vols. Leiden, 1911–16. 8°. 1911.1

Vol. i. Index of the ichthyological papers of P. Bleeker [Index bibliographicus et index generum et specierum] 1911. 410 p. 2 figs.
Vol. ii. Malacopterygii, Myctophoidea, Ostariophysi (Siluroidea) 1913. 404 p. 149 pls.
Vol. iii. I. Ostariophysi. II. Cyprinoidea, Apodes, Synbranchi. Leiden, 1916. 455 p. 214 figs.
This is the most comprehensive account of the fishes of the Indo-Australian region which has been published.

—— Contributions to the knowledge of Indo-Australian fishes. Verh. Akad. Wet. Amsterdam, 1912, **17**, no. 3, 1–21. fig. 1912.1

—— Die Fische (In A. Maass. Dutch Zentral-Sumatra, vol. ii, p. 1–20. Leipzig, 1912) 1912.2

—— Over de zoetwatervisschen van Timor en Babber. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1912, 133–138. — Proc. Sci. Akad. Wet. Amsterdam, 1912, **15**, 235–240. 1912.3

—— Ueber neue Fische von Neu-Kaledonien. Zool. Anz., 1913, **42**, 172–174. 1913.1

Weber, *Max* [*Carl Wilhelm*], **Nusbaum,** *Józef,* & **Karsten,** *G.* *See* **Nusbaum, Karsten & Weber.**

Webster, *William Henry Bayley.* Narrative of a voyage to the southern Atlantic ocean, in . . . 1828–1830 . . . in H. M. S. " Chanticleer," etc. 2 vols. London, 1834. illust. 8°. 1834.1

Wedd, *C. B.* Carboniferous rocks, fossils and fossiliferous horizons (In Pocock, T. I. The geology of the country around Macclesfield, Congleton, Crewe and Middlewich. Mem. Geol. Surv. United Kingdom, London, 1906, **110**, 16–17; 47–48) 1906.1

Wedderburn, *John Wallis,* **Jones,** *John Matthew,* & **Hurdis,** *J. L. See* **Jones, Wedderburn & Hurdis.**

Weddige, —— Castrating fish. Bull. U. S. Fish Comm. 1881 (1882), **1**, 59–61. 1882.1

Wedl, *Carl.* Ueber die Blasenzellgewebeswürmer der Grundel (*Cyprinus gobio*) Ber. Mitth. Freund. Naturw. Wien, 1846–47, **2**, 488–491. 1846.1

—— Filarien im Blute der Grundel (*Cyprinus gobio*) Ber. Mitth. Freund. Naturw. Wien, 1848, **4**, 149–151. 1848.1

—— Ueber die Structur der Sclerotica bei einigen Vögeln, Fischen und den Fröschen. Ber. Mitth. Freund. Naturw. Wien, 1848, **4**, 470–472. 1848.2

Weed, *Alfred C.* Notes on the fishes of the district of Columbia and vicinity. Journ. Washington Acad. Sci., 1912, **2**, 93. 1912.1

Weed, *Alfred C.*, & **Bean,** *Barton A. See* **Bean & Weed.**

Weeden, *William B.* Economic and social history of New England, 1620–1789. 2 vols. Boston, 1890. 1890.1

Contains an account of the fisheries of New England.

Weeger, *Emil.* The aquarium, a school for anglers. — Fish and fishing in China. Fish. Gazette, 1879, **3**, 549–551. 1879.1

—— Aufzucht der Salmonidenbrut und Züchtung von Krebstierchen und Insektenlarven. Brünn, 1900. 1900.1

Weeks, *Fred Boughton* [1864 —] Bibliography and index of North American geology, paleontology, petrology and mineralogy for 1892 and 1893. Bull. U. S. Geol. Surv., 1896, no. 130. 210 p. 1896.1

—— Bibliography and index of North American geology, paleontology, petrology and mineralogy for 1894. Bull. U. S. Geol. Surv. 1896, no. 135. 141 p. 1896.2

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1895. Bull. U. S. Geol. Surv., 1896, no. 146. 130 p. 1896.3

The last part was compiled in association with J. M. Nickles, by whom the work was carried on.

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1896. Bull. U. S. Geol. Surv., 1897, no. 149. 152 p. 1897.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1897. Bull. U. S. Geol. Surv., 1898, no. 156. 130 p. 1898.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1898. Bull. U. S. Geol. Surv., 1899, no. 162. 163 p. 1899.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1899. Bull. U. S. Geol. Surv., 1900, no. 172. 141 p. 1900.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1892–1900, inclusive. Bull. U. S. Geol. Surv., 1902, no. 188. 717 p. 1902.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1901. Bull. U. S. Geol. Surv., 1902, no. 203. 144 p. 1902.2

—— Index to North American geology, paleontology, petrology and mineralogy for 1892–1900, inclusive. Bull. U. S. Geol. Surv., 1902, no. 189. 337 p. 1902.3

—— North American geologic formation names, bibliography, synonymy and distribution. Bull. U. S. Geol. Surv., 1902, no. 191. 448 p. 1902.4

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1902. Bull. U. S. Geol. Surv., 1903, no. 221. 200 p. 1903.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1903. Bull. U. S. Geol. Surv., 1904, no. 240. 243 p. 1904.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for 1904. Bull. U. S. Geol. Surv., 1905, no. 271. 218 p. 1905.1

—— Bibliography of North American geology, paleontology, petrology and mineralogy for the years 1901–1905, inclusive. Bull. U. S. Geol. Surv., 1906, no. 301. 770 p. 1906.1

Weeks, *Fred Boughton,* & **Nickles,** *John N.* Bibliography of North

Weeks & Nickles. American geology for 1906 and 1907. Bull. U. S. Geol. Surv., 1908, no. 372. 317 p. 1908.1

Similar bibliographies for the years 1908–1916 are continued by J. N. Nickles alone. References to publications on American fossil fishes are included in all of them. *See also* the geological and palæontological bibliographies of N. H. Darton, 1896.1, O. P. Hay, 1902.1, and Warman, P. C., 1893.1, *ante*.

Weeks, *John M.* History of Salisbury, Vermont. Middlebury, 1860. 1860.1

Fishing and fish in lake Dunmore, Otter creek, and Middlebury river, p. 107–110.

Wegener, *Max.* Die Ektoparasiten der Fische Ostpreussens. Inaug. Dissert. Königsberg i. P., 1910. 97 p. 2 pls. 1910.1

—— Zur Physiologie der Schwimmblase der Fische. Zeitschr. Allgem. Physiol., 1910, **10**, 249–272. 4 figs. 1910.2

Wegerland, *N.* Vore indsoers og elves statsoconomiske vaerd, som teldt for fiskeavl. Meddel. Corsk Jager & Fisker-Forening, Christiania, 1878, 7. Jahrg., 1–47; 101–172. 1878.1

—— The economic value of the Norwegian lakes and rivers as a field for fish-culture. Rept. U. S. Fish Comm. 1878 (1880), **6**, 539–604. 1880.1

Wegner, *J. E. G.* Das Ende des Xiphophorus-Streites. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 520–521. 1913.1

Wegner, *Theodor.* Die Granulatenkreide des westlichen Münsterlandes. Fauna vertebrata. Zeitschr. Deutsch. Geol. Ges., 1905, **57**, 112–232. 4 pls. & 20 figs. 1905.1

Wehrli, *E.* Fischleben der kleinern thurgauischen Gewässer. Beitrag zu einer Fauna des Kantons Thurgau. Frauenfeld, 1892. 44 p. 8°. 1892.1

Weibel, *E.*, & **Emmerich,** *R. See* **Emmerich & Weibel.**

Weidenbusch, *H.* Ueber die Analyse des Fisch- und Hühner-Fleischalbumins und eine neue Bestimmungsmethode des Schwefels. Annal. Chemie, 1847, **61**, 370–376. 1847.1

Weidmeyer, *M. C.* American fish, etc. A hand-book for fishing. New York, 1885. 95 p. 8°. 1885.1

Weigel, *J. A. V.* Fauna Silesiacæ prodromus. Berlin, 1806. 1806.1

Namensverzeichniss der Fische Schlesiens, p. 11.

Weigelt, *A.* Vorschriften für die Entnahme und Untersuchung von Abwässern und Fischwässern. Berlin, 1900. 1900.1

Weigelt, *Curt.* Ueber Schädlichkeit der Fabrikabflüsse, insbesondere Bleichereien, für die Fische. Landwirthsch. Versuchs-Stationen, 1880, **24**, 424–427. 1880.1

—— Die Schädigung von Fischerei und Fischzucht durch Industrie- und Hausabwasser. Arch. für Hyg., 1885, **3**. Also separate; Berlin, 1892. 1885.1

—— Die Abfälle der Seefischerei; experimentelle Untersuchungen über deren Natur, Menge, Verarbeitung und Verwertung. Berlin, 1891. 1891.1

—— Fleischgehalt der wichtigsten Marktfische. Allgem. Fischerei Zeitg., 1896, **21**. 1896.1

—— Regeln für die Pflege und Erbrütung von Lachseiern und für das Aussetzen von Brut, nebst Vorschriften für die Kontrolle der Aussetzungen. Allgem. Fischerei Zeitg., 1896, **23**, 50–52. 1896.2

—— Vorschriften für die Entnahme und Untersuchung von Abwässern und Fischwässern, aufgestellt von einer wissenschaftlichen Kommission des Deutschen Fischerei Vereins nebst Beiträgen zur Beurteilung unserer natürlichen Fischgewässer. Zeitschr. Fischerei, Berlin, 1900, 1–287. 72 figs. 1900.1

Trutta fario, Tinca tinca, Salmo fontinalis, Gasterosteus fontinalis, Esox lucius, Anguilla vulgaris, Leuciscus erythrophthalmus, Perca fluviatilis, and *Cobitis barbatula* are considered.

—— Unsere natürlichen Fischgewässer, wie sie sein sollten und wie sie geworden sind, nebst einem Anhang, enthaltend Vorschriften für die Entnahme von Wasserproben für die Untersuchung (In Vorschriften zur Entnahme und Untersuchung von Abwässern und Fischwässern, etc., 1900) Stuttgart, 1902. viii, 241 p. 1902.1

—— L'assainissement et le repeuplement des rivières. Bruxelles, 1903. 660 p. fig. 1903.1

Weigold, *H.* Die deutschen Versuche mit gezeichneten Dorschen (*Gadus morrhua*) Wiss. Meeresunters. Kiel (*Abth. Helgoland*) 1912 (1913), n. s. **10**, 117–140. 3 figs. 1913.1

Weijenbergh, *Hendrik. See* **Weyenbergh,** *Hendrik.*

Weijland, *G. J.* Rapport, betreffende de zeevischerijen in de provincie Groningen, over 't jaar 1870. Tijdschr. Nederl. Maatsch., 1871, **34** (3. ser. **12**), 125–128. 1871.1

Weil, *Carl.* Beiträge zur Kenntniss der Entwickelung der Knochenfische. Sitzber. Akad. Wiss. Wien, 1872, **65**, Abth. 3, 171–179. Also separate; Wien, 1872. 8°. 1872.1

Weill, *Jeanne.* Sur la teneur en acides gras et en cholestérine des tissus d'animaux à sang froid. C. R. Acad. Sci. Paris, 1914, **158**, 642–645. 1914.1

Localisations des réserves de graisse chez les diverses espèces. Teneur des différents tissus.

Weinhausen, *H.* Eine Varietät von *Xiphophorus rachovii* Regan. Beobachtungen über Zucht und Färbung. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 775–776. fig. 1911.1

—— *Mesonauta insignis* (Heckel) Gthr. Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 257–258. fig. 1911.2

Weinland, *David Friedrich.* A new division of the five species of flying-fish found along the coast of North America, which have hitherto all been referred to the genus Exocetus. Proc. Boston Soc. Nat. Hist., 1856–59, **6**, 385. 1856.1

—— Some remarks upon the method of locomotion in lophobranchious fishes. Proc. Boston Soc. Nat. Hist., 1856–59, **6**, 346. 1856.2

Weinland, *Ernst.* Ueber das Auftreten zweier verschiedener Verdauungssecrete im Magen der Rochen. Sitzber. Ges. Morphol. Physiol. München, 1900, **16**, 27–32. 1900.1

—— Zur Magenverdauung der Haifische. Zeitschr. Biol. München & Leipzig, 1901, 2. ser. **23**, 35–68; 275–294. pl. 1901.1

Weinland, *Ernst,* & **Reuss,** *Hans.* *See* **Reuss & Weinland.**

Weis, *A.* Einiges über den Paradiesfisch (*Macropodus venustus* [*Polyacanthus viridi-auratus*]) dessen Zucht und Pflege. Isis (Russ), 1878, 3. Jahrg., 147–148; 163–164. 1878.1

Weiske, *F.* Ueber die Zusammensetzung von Fischschuppen und Fischknochen. Zeitschr. Physiol. Chem., 1883, **7**, 466–473. 1883.1

—— Der Sauerstoff und seine Bedeutung für die Fischwelt. Natur u. Haus, 1902, **10**, 115–116. 1902.1

Weismann, *Aug.* Ueber die Fortpflanzung des Bitterlings. Bericht. Verh. Naturf. Ges. Freiburg i. B., 1876, **6**, 4. Heft, 124–125. 1876.1

Weismann, *Friedrich Leopold August* [1834–1914] Das Thierleben im Bodensee. Gemeinverständlicher Vortrag. Lindau, 1877. 31 p. illust. 8°. 1877.1

Schriften für Geschichte des Bodensees und seiner Umgebung.

Weiss, —— Eine Lanze für den Hecht. Bayer. Fischerei Zeitg., 1880, 5. Jahrg., 80–81. 1880.1

—— Die Zuger Fischbrutanstalt. Zentralbl. Jagd-, Hundeliebhaber & Fischereiwesen, 1890, **6**, 158. Also separate; St. Gallen, 1890. 1 p. 4°. 1890.1

Weiss, *E.* Leitfische des Rothliegenden in den Lebacher und äquivalenten Schichten des Saarbrückisch-pfälzischen Kohlengebirges. Zeitschr. Deutsch. Geol. Ges., 1864, **16**, 272–302. — Neues Jahrb. Mineral., 1865, 377–378. fig. 1864.1

Weiss, *F.* Untersuchungen über die Bildung des Lachsprotamins. Zeitschr. Physiol. Chem., 1907, **52**, 107–120. 1907.1

Weiss, *Frederick Ernest.* A preliminary account of the submerged vegetation of lake Windermere as affecting the feeding ground of fish. Mem. Manchester Lit. Phil. Soc., 1909, **53**, no. 11. 9 p. figs. 1909.1

Weissenberg, *Richard.* Beiträge zur Kenntnis von *Glugea lophii* Doflein. II. Ueber den Bau der Zysten und die Beziehungen zwischen Parasit und Wirtsgewebe. Sitzber. Ges. Naturf. Freunde Berlin, 1911, 149–157. 1911.1

Die durch *Glugea lophii* verursachten Geschwülste finden sich an den Ganglien der Hirn- und Spinalnerven von *Lophius piscatorius* und *L. budegassa.*

—— Ueber einige Mikrosporidien aus Fischen. Sitzber. Ges. Naturf. Freunde Berlin, 1911, 344–350. 1911.2

Behandelt an *Lophius piscatorius* und *L. budegassa* gewonnene Ergebnisse.

—— Ueber Microsporidien aus dem Nervensystem von Fischen (*Glugea lophii* Doflein) und die Hypertrophie der befallenen Ganglien zellen. Arch. Mikr. Anat., 1911, **78**, 383–421. 2 pls. 1911.3

Weith, *W.* Chemische Untersuchung schweizerischer Gewässer mit Rück-

Weith, *W.*
sicht auf deren Fauna. Leipzig, 1880. 25 p. 8°. 1880.1

Intern. Fischerei-Ausstellung zu Berlin, 1880 (Schweizer Katalog).

Weiz, *S.* List of vertebrates observed at Okak, Labrador. Proc. Boston Soc. Nat. Hist., 1864–66, **10**, 265–277. 1864.1

Fishes, p. 269; 272–277.

Welcker, *Hermann* [1822–1897] Zur Lehre von Bau und Entwickelung der Wirbelsäule. Zool. Anz., 1878, **1**, 291–295; 311–315. 1878.1

Weldon, *Walter Frank Raphael* [1860–1906] Note on the origin of the suprarenal bodies of vertebrates. Proc. Roy. Soc. London, 1884, **37**, 422–425. 1884.1

—— On the head kidney of Bdellostoma, with a suggestion as to the origin of the suprarenal bodies. Quart. Journ. Micr. Sci., 1884, **24**, 171–181. pl. 1884.2

—— Young food-fishes and their surroundings. Syllabus of lecture. Ann. Repts. Plymouth Instit. Devon & Cornwall Nat. Hist. Soc., 1894, **11**, 43. 1894.1

Welker, *William H.*, & **Hussakof,** *Louis. See* **Hussakof** & **Welker.**

Wellburn, *Edgar D.* Fish-fauna of the lower Coal Measures of the Halifax and Littleborough districts. Proc. Yorkshire Geol. & Polyt. Soc., 1898, n. s. **13**, 419–432. 2 pls. — Halifax Natural., 1899, **4**, 12–14; 47–50. 9 figs. 1898.1

—— On some fossil fish found in the Millstone grits of Yorkshire. Proc. Yorkshire Geol. & Polyt. Soc., 1898, n. s. **13**, 395–399. pl. 1898.2

—— Genus Megalichthys Agassiz; its history, systematic position and structure. Proc. Yorkshire Geol. & Polyt. Soc., 1899, **14**, pt. 1, 52–87. 1899.1

—— On a new species of Lepracanthus from the Yorkshire Coal Measures. Geol. Mag., 1899, 4. ser. **6**, 451–452. fig. 1899.2

—— On *Rhadinichthys monensis* Egerton, and its distribution in the Yorkshire coalfield. Geol. Mag., 1900, 2. ser. **7**, 260–263. fig. 1900.1

—— On the fish-fauna of the Yorkshire coalfields. Rept. Brit. Assoc. Adv. Sci., 70. meet., 1900, 749–750. — Geol. Mag., 1901, 4. ser. **8**, 37; 80–81. 1900.2

—— On the genus Megalichthys Agassiz; its history, systematic position and structure. Proc. Yorkshire Geol. & Polyt. Soc., 1900, n. s. **14**, 52–71. 6 pls. 1900.3

—— On the occurrence of *Strepsodus sulcidens* Hancock and Atthey in the Yorkshire Coal Measures. Proc. Yorkshire Geol. & Polyt. Soc., 1900, n. s. **14**, 86–87. pl. 1900.4

—— On the fish-fauna of the Yorkshire Coal Measures. Proc. Yorkshire Geol. & Polyt. Soc., 1901, n. s. **14**, 159–174. 1901.1

—— On the fish-fauna of the Millstone grits of Great Britain. Geol. Mag., 1901, 2. ser. **8**, 216–222. 1901.2

—— On the occurrence of fish remains in the Limestone shales (Yoredale) at Crimsworth Dean (Horse Bridge Clough) near Hebden bridge, in the West Riding of Yorkshire. Proc. Yorkshire Geol. & Polyt. Soc., 1901, n. s. **14**, 175–177. 1901.3

—— On the pectoral fin of Cœlacanthus. Geol. Mag., 1901, 2. ser. **8**, 71–72. 1901.4

—— On the fish-fauna of the Pendleside limestones. Proc. Yorkshire Geol. & Polyt. Soc., 1902, n. s. **14**, 465–473. 1902.1

Marsdenius, n. g., *M. summiti* and *M. acuto*, *Cœlacanthus hindi*, n. sp.

—— On the genus Cœlacanthus as found in the Yorkshire Coal Measures, with a restoration of the fish. Proc. Yorkshire Geol. & Polyt. Soc., 1902, n. s. **14**, 474–483. fig. 1902.2

—— On some new species of fossil fish from the Millstone grit rocks, with an amended list of genera and species. Proc. Yorkshire Geol. & Polyt. Soc., 1903, n. s. **15**, 70–78. 1903.1

Four new species are described of Cœlacanthus, Rhadinichthys and Elonichthys.

—— Fish-fauna of the Lower Carboniferous rocks of Yorkshire. Proc. Yorkshire Geol. & Polyt. Soc., 1905, n. s. **15**, 380–387. 1905.1

—— A list of the fossil fishes of the Carboniferous rocks of Yorkshire, with their distribution. Proc. Yorkshire Geol. & Polyt. Soc., 1907, **16**, 199–204. 1907.1

Wellenbergh, *Petrus Henricus Jacobus.* Observationes anatomicæ de *Orthagorisco mola.* Lugduni Batavorum, 1840. 32 p. pl. 4°. 1840.1

Weller, *Stuart* [1870 —] A peculiar Devonian deposit in northeastern Illinois. Journ. Geol., 1899, **7**, 483–488. 3 figs. 1899.1

Reports occurrence of *Ptyctodus calceolus, Diplodus priscus* and *D. striatus.*

—— The fauna of the Glen Park limestone [Pisces] (In his Kinderhook faunal studies, IV. Trans. Acad. Sci. St. Louis, 1906, **16**, 462–471. pl. & 2 figs.) 1906.1

Wellmann, —— [Notices of fishes in Athenæus, derived from Dorio's compendium] Hermes, 1888, **23**, 179–193. 1888.1

Wells, *H.* Text book of biology. I. Vertebrata. London, 1894. illust. 8°. 1894.1

Wells, *H. G.*, & **Davies,** *Arthur Morley.* Textbook of zoology. 7. impression. Revised by J. T. Cunningham. London, 1913. 487 p. 8°. 1913.1

Wells, *Henry P.* The American salmon fisherman. New York, 1886. 4°. 1886.1

—— American salmon fishing. New York, 1886. 166 p. illust. 1886.2

Wells, *James N.* Eel culture in America. Fish. Gazette, 1878, n. s. **2**, no. 73, 439. 1878.1

—— Eel culture. Forest & Stream, 1878, **11**, 67. — Chicago Field, 1879, **11**, 116. 1879.1

—— Reproductive habits of eels. Chicago Field, 1879, **11**, 117. 1879.2

Wells, *Morris M.* The resistance of fishes to different concentrations and combinations of oxygen and carbon dioxide. Biol. Bull. Woods Hole, 1913, **25**, 323–347. fig. 1913.1

—— Reactions and resistance of fishes in their natural environment to acidity, alkalinity and neutrality. Biol. Bull. Woods Hole, 1915, **29**, 221–257. 3 figs. 1915.1

Freshwater fishes select slight acidity in preference to neutrality or alkalinity in preference to neutrality. Optimum .00005 NH_2SO_4.

—— The reactions and resistance of fishes in their natural environment to salts. Journ. Exper. Zool., 1915, **19**, 243–284. 3 figs. 1915.2

Tendency to seek optimum concentration. Greater sensitiveness to H and OH ions than to salt ions. Higher concentration sought in consequence of starvation in some fishes, in others after overfeeding. Adaptation to C_8Cl_2 solution. Metabolism and migration.

Welsh, *W. W.* European and American haddock. Copeia, 1915, no. 15, 2. 1915.1

—— Measurements of a large example of *Cestracion zygæna* (Linnæus) Copeia, 1916, no. 38, 94–95. 1916.1

Welsh, *W. W.*, & **Radcliffe,** *L.* *See* **Radcliffe & Welsh.**

Welsher, *H. W.* Suspended animation by freezing. Chicago Field, 1879, **11**, 237. 1879.1

Weltner, *W.* Ueber Myxosporidiensporen in den Eiern von *Esox lucius.* Sitzber. Ges. Naturf. Freunde Berlin, 1892, 27–41. 16 figs. 1892.1

—— *Enneacanthus obesus,* ein neuer Aquarienfisch. Blätt. Aquar.-Terrar. Freunde, 1897, 8. Jahrg., no. 14, 166–167. fig. 1897.1

Weltner, *W.*, & **Samter,** *M.* *See* **Samter & Weltner.**

Weltner, *W.*, **Wandolleck,** *Benno,* & **Philippi,** *Erich.* *See* **Wandolleck, Philippi & Weltner.**

Wemple, *Edna M.* New cestraciont teeth from the west American Triassic. Univ. Calif. Bull. (Dept. Geol.) Berkeley, 1906, **5**, 71–73. pl. 1906.1

Wenckebach, *Karel Frederik.* The development of the blood-corpuscles in the embryo of *Perca fluviatilis.* Journ. Anat. Physiol., 1885, **19**, 231–235. pl. 1885.1

—— Beiträge zur Entwicklungsgeschichte der Knochenfische. Arch. Mikr. Anat., 1886, **28**, 225–251. 2 pls. 1886.1

—— De embryonale ontwikkeling van de anjovis (*Engraulis encrasicholus*) Natuurk. Verh. Akad. Amsterdam, 1887, **26**, 1–11. pl. Also separate; Amsterdam, 1887. 11 p. pl. 4°. 1887.1

—— Eine Bemerkung. Anat. Anz., 1897, **12**, no. 15–16, 375–376. 1897.1

Wenckstern, *Friedrich von.* A bibliography of the Japanese empire. Leiden, 1895. 338 p. 8°. 1895.1

A classified list of all books, essays and maps in European languages relating to Dai Nihon [Great Japan] published in Europe, America and in the East from 1859–93: to which is added a facsimile reprint of Pagès, Léon: Bibliographie

Wenckstern, *F.*
Japonaise depuis le XV^{e} siècle jusqu'à 1859. References to ichthyological writings, voyages, travels and natural history are very extensive.

Wendt, *Albert.* *Anabas africanus.* Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 337–338. fig. 1915.1

—— Der Kalikobarsch (*Pomoxis sparoides* Lacép.) Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 353–354. fig. 1915.2

—— Der Flaggensalmler (*Tetragonopterus ulreyi* Blgr.) Blätt. Aquar.-Terrar. Kunde, 1916, 27. Jahrg., 3–4. fig. 1916.1

—— Die Zwergbarbe (*Barbus plutunio* H. B.) Blätt. Aquar.-Terrar. Kunde, 1916, 27. Jahrg., 1–3. fig. 1916.2

Wengen, —— *von der.* Zur künstlichen Lachszucht des Fischermittels in Brieg. Landwirth, 1869, 5. Jahrg., 374–375. 1869.1

—— Erscheinen von Neunaugen in der mittleren Oder. Circul. Deutsch. Fischerei Ver., 1871, no. 7, 56. 1871.1

—— Eine Fischerei-Ordnung aus dem 15. und 16. Jahrhundert. Circul. Deutsch. Fischerei Ver., 1871, no. 3, 35–39. 1871.2

—— Fischreichthum der Donau. Circul. Deutsch. Fischerei Ver., 1871, no. 7, 56. 1871.3

—— Die künstliche Lachszucht in Schlesien während der Brütperiode von 1870–72. Circul. Deutsch. Fischerei Ver., 1871, no. 7, 35–41. *Ibid.*, 1872, no. 10, 258–263. 1871.4

—— Lachseier-Export der Fischzucht-Anstalt des Herrn Ober-Bürgermeister Schuster in Freiburg in Badenwährend der Winter-Brütperiode, 1870–71. Circul. Deutsch. Fischerei Ver., 1871, no. 7, 53–56. 1871.5

—— Mittheilungen vom 14. Februar 1871 über den Betrieb der Lachszucht in Schlesien. Circul. Deutsch. Fischerei Ver., 1871, no. 2, 5–21. 1871.6

—— Mittheilung vom 30. März 1871 über die Gefährlichkeit der Weissfische und Frösche in Brutwässern. Circul. Deutsch. Fischerei Ver., 1871, no. 3, 33–34. 1871.7

—— Zur Hebung der Fischerei. Landwirth, 1871, 17. Jahrg., no. 78, 321. 1871.8

—— Die künstliche Lachszucht in Schlesien und der Neumark, 1871–72. Landw. Centralbl. Deutschland, 1872, 20. Jahrg., 348–355. 1872.1

—— Beiträge zur Geschichte der Fischerei. Circul. Deutsch. Fischerei Ver., 1873, no. 4, 101–103. 1873.1

—— Die künstliche Lachszucht im Odergebiete während die Brütperioden 1872–78. Circul. Deutsch. Fischerei Ver., 1873, no. 7, 247–252. *Ibid.*, 1874 (1875), no. 7, 271–277. *Ibid.*, 1876 (1877), no. 1, 5–13. *Ibid.*, 1877 (1878), no. 6, 171–178. *Ibid.*, 1878, no. 7, 151–157. *Ibid.*, 1879 (1880), no. 6, 249–255. — Landwirth, 1879, 15. Jahrg., 11–12; 557–559. 1873.2

—— Historische Mittheilungen. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 1, 30–31. 1875.1

—— Verzeichniss von Anstalten und Stationen für künstliche Fischzucht in Deutschland im Jahre 1873. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 1, 22–27. 1875.2

—— Zur Lachszucht in Forellenbächen. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 2, 74–75. 1875.3

—— Zur schlesischen Lachszucht. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 2, 73–74. 1875.4

—— Die künstlichen Lachs- und Forellenzucht in Böhmen. Circul. Deutsch. Fischerei Ver. 1875 (1876), no. 7, 383–387. 1876.1

—— Bericht über die Aussetzung von jungen Lachsen aus den rheinpreussischen Fischzucht Anstalten Kölzen und Aubach. Circul. Deutsch. Fischerei Ver. 1876 (1877), no. 3, 95–101. 1877.1

—— Ueber den Transport von Shad-Brut. Circul. Deutsch. Fischerei Ver. 1876 (1877), no. 1, 30. 1877.2

—— Aussetzung von Lachsbrut. Circul. Deutsch. Fischerei Ver., 1878, no. 3, 78–86. 1878.1

—— Die Sage von der Madue-Maräne [*Coregonus lavaretus*] Circul. Deutsch. Fischerei Ver. 1877 (1878), 1. Jahrg., no. 7, 209–210. 1878.2

—— Besetzung der Ams und Weser mit Lachsbrut. Circul. Deutsch. Fischerei Ver., 1879, no. 4, 120–131. 1879.1

—— Die künstliche Lachszucht des Maingebiets bis zum Jahre 1879. Circul. Deutsch. Fischerei Ver., 1879, no. 5, 173–205. 1879.2

—— Bericht über die Besetzung der Ems und Werra mit Lachsbrut 1880.

Circul. Deutsch. Fischerei Ver., 1880, no. 5, 120–125. 1880.1

—— A review of the failures and successes of artificial fish-culture. Rept. U. S. Fish Comm. 1884 (1886), **12**, 437–465. 1886.1

Wenig, *Jaromir.* Die Entwickelung des Ductus endolymphaticus bei den Knochenfischen. Anat. Anz., 1911, **38**, 112–115. 2 figs. 1911.1

—— Vývoj blánitého labyrintu ryb kostnatých [Ueber die Entwicklung des häutigen Labyrinthes bei Knochenfischen] Věstn. Král. Ceské Spol. Náuk., Prag, 1911, 40. pl. 1911.2

—— Untersuchungen über die Entwicklung der Gehörorgane der Anamnia. Morph. Jahrb., 1913, **45**, 295–333. 3 pls. 1913.1

Experiments on *Salmo salar, Scyllium canicula*, etc.

Wenjaminow, *N.* *See* **Venyaminov,** *N.*

Wenyon, *C. M.* Report of travelling pathologist and protozoologist. 3. Rept. Wellcome Research Lab. Gordon Memorial Coll., Khartoum, 1911, 121–168. 1911.1

Trypanosoma and Hæmogregarina in *Ophiocephalus obscurus*, p. 157.

Werber, *E. I.* The influence of products of pathologic metabolism on the developing teleost ovum. Biol. Bull. Woods Hole, 1915, **28**, 51–57. 1915.1

Monstrosities produced by butyric acid and acetone.

—— Some experiments on Fundulus eggs aiming at the control of development. Science, 1915, n. s. **41**, 472–473. 1915.2

Production of monsters by solutions of urea, butyric acid, lactic acid, sodium glycocholate and NH_4OH.

Wergeland, *N.* Economic value of the Norwegian lakes and rivers as a field for fish-culture. Rept. U. S. Fish Comm. 1878 (1880), **6**, 539–604. 1880.1

—— Value of the Norwegian lakes and rivers for fish-culture. Washington, 1880. 8°. 1880.2

Werkmeister, —— Praktische Abfischung von Forellenteichen. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 477. — Erste Oester.-ungar. Fischerei Zeitg., 1880, 197–198. 1880.1

—— Ueber Einwirkung von Licht und Schatten auf das Wachsthum der Fische. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 466–467. — Erste Oester.-ungar. Fischerei Zeitg., 1880, 192–193. 1880.2

—— Ueber zweckmässige Fangschleusen behufs Einfang von laichreifen Salmoniden. Circul. Deutsch. Fischerei Ver., 1880, no. 1, 31–32. 1880.3

Werner, —— Muutama sana kalan sikiämisestä ja kasvattamisesta. Porissa, 1883. 24 p. 12°. 1883.1

Werner, *Franz.* Untersuchungen uber die Zeichnung der Wirbelthiere. Morphol. Jahrb. (*Syst. Abth.*), 1892, **6**, 155–229. 5 pls. 1892.1

—— Brutpflege bei Amphibien und Fischen. Mitth. Sect. Naturk. Oesterr. Touristen Club, 1900, 12. Jahrg., 37–42. 1900.1

—— Adriatische Aquariumfische. Natur u. Haus, 1901, **9**, 243–246. 1901.1

—— Die Fische der zoologisch-vergleichend-anatomischen Sammlung der Wiener Universität. I. Teil. Cyclostomen, Chondropterygier, Ganoiden, Dipnoer. Zool. Jahrb. (*Syst. Abth.*), 1904, **21**, 263–302. 6 figs. 1904.1

—— Zoologische Kreuz- und Querfahrten in Süd-Bosnien und der Herzegowina. Zool. Garten, 1904, 45. Jahrg. 41–57. 1904.2

—— Beiträge zur Kenntnis der Fischfauna des Nils (In Ergebnisse der mit Subvention aus der Erbschaft Treitl unternommenen zoologischen Forschungreise Dr. F. Werner's nach dem ägyptischen Sudan und Nord-Uganda. V. Sitzber. Akad. Wiss. Wien, math.-nat. Kl., 1906, **115**, 1. Abth., 1097–1158. 4 pls. & 6 figs. — Anz. Akad. Wiss. Wien, **43**, 325–327) 1906.1

—— Fischmärkte und Fischerei am Nil. Blätt. Aquar.-Terrar. Kunde, 1906, 17. Jahrg. 6 p. illust. 1906.2

—— Fische (In Zoologische Reise des naturwissenschaftlichen Vereines nach Dalmatien im April 1906. B. Spezieller Teil. Bearbeitung des gesammelten Materiales. 3. Mitt. Naturw. Ver. Univ. Wien, 1908, 6. Jahrg., 43–44) 1908.1

—— Ein Jugendstadium des Schlammbeissers (*Misgurnus fossilis*) Mitt. Naturw. Ver. Univ. Wien, 1908, 6. Jahrg., 32. fig. 1908.2

—— Reptilien, Batrachier und Fische von Tripolis und Barka. Zool. Jahrb. (*Syst. Abth.*), 1909, **27**, 595–646. 1909.1

Werner, *F.*

—— Ueber die Schlafstellungen der Fische. Biol. Centralbl., 1911, **31**, 41–44. 1911.1

—— Ergebnisse einer von Prof. Franz Werner im Sommer 1910 mit Unterstützung aus dem Legate Wedl ausgeführten zoologischen Forschungsreise nach Algerien. II. Vertebrata. Sitzber. Akad. Wiss. Wien, math.-nat. Kl., 1914, **123**, 1. Abth., 331–361. pl. 1914.1

Werner, *Fritz.* Der dreistachlige Stichling (*Gasterosteus aculeatus*) Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 321–324. 3 figs. 1915.1

Werzberg, *H.* Studien zur vergleichenden Hæmatologie einiger poikilothermer Vertebraten. Fol. Hæmatol., 1911, **11** (*Arch.*), 17. 1911.1

Carassius, Cyprinus, Tinca, Leuciscus, Cobitis, Anguilla, Perca, Rhodeus, Amiurus, Esox, Gadus, Lota, Petromyzon, Ammocœtes.

Wesenberg-Lund, *Carl Jörgen* [1867 —] Ueber pelagische Eier, etc. Intern. Rev. Ges. Hydrob. Hydrogr., 1909. 1909.1

Wesenberg-Lund, *C.*, & **Ostenfeld,** *C. H.* *See* **Ostenfeld** & **Wesenberg-Lund.**

Westberg, *P.* Ueber die Fischgattung Scaphirhynchus (Spatenschnabel) Korrespbl. Naturf. Ver. Riga, 1899, **42**, 159–160. 1899.1

Westenberg, —— Dissertatio de piscaturis in Oceano boreali [n. pl. n. d.]

Not seen; reference from Bosgoed, D. M. Bibliotheca ichthyologica. Haarlem, 1874.

Wester, *D. H.* Ueber die Verbreitung und Lokalisation des Chitins im Tierreiche. Zool. Jahrb. (*Syst. Abth.*), 1910, **28**, 531–558. pl. & fig. 1910.1

Westerfeld, *Carl.* Why the Pacific Fisheries Society was organized. Trans. Pacific Fisheries Soc. 1914 (1915), 19–22. 1915.1

Westerlund, *Aulis* [— 1899] *Abramidopsis leuckartii* Heck. Meddel. Soc. Fauna Flora Fenn., 1898, **23**, 102–105. pl. & 7 figs. 1898.1

—— Zoolgiska notiser. Meddel. Soc. Fauna Flora Fenn. 1898, **23**, 21; 189; 191; 192. 1898.2

—— Studien über die Athembewegungen der Karausche mit besonderer Rücksicht auf den verschiedenen Gasgehalt des Athemwassers. Skand. Arch. Physiol., 1906, **18**, 263–289. 9 figs. 1906.1

Westerlund, *Aulis,* **Stenroos,** *K. E.*, **Palmén,** *J. A.*, & **Levander,** *K. M.* *See* **Stenroos, Palmén, Levander** & **Westerlund.**

Westgate, *Sylvanus.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 33–34. 1873.1

Westphal, *F.* Haltung und Zucht von *Barbus ticto* im Aquarium. Blätt. Aquar.-Terrar. Kunde, 1905, 16. Jahrg., 214–215. 1905.1

Westropp, *T. J.*, **Scharff,** *R. F.*, **Ussher,** *R. J.*, **Cole,** *G. A. J.*, **Newton,** *E. T.*, & **Dixon,** *A. F.* *See* **Scharff, Ussher** & others.

Westwood, *Thomas* [— 1888] A new bibliotheca piscatoria, or general catalogue of angling and fishing literature, with bibliographical notes and data. London, 1861. 78 p. 8°. 1861.1

—— The chronicle of the "complete angler" of Izaak Walton and Charles Cotton, being a bibliographical record of its various phases and mutations. London, 1864. xv, 64 p. 4°. 1864.1

Another edition. London, 1883. 4°.

—— In memoriam; Izaak Walton, obiit 15th Dec. 1683. Twelve sonnets and an epilogue. London, 1884. 16 p. 4°. 1884.1

—— The scholarly angler, and the Angler's note-book. London, 1884. 6 p. 32°. 1884.2

Westwood, *Thomas,* & **Satchell,** *Thomas.* Bibliotheca piscatoria, a catalogue of books on angling, the fisheries and fish-culture. London, 1883. xxiv, 397 p. 8°. 1883.1

A supplement to this work, by R. B. Marston, was published at London in 1901. *See* reference under the compiler's name, *supra. See also* Sage, D., 1888.1, and Turrell, W. J., 1910.1, *supra.*

Wetterich, *Anton.* Störfang am Amur. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 167–168. fig. 1880.1

Wettstein, *Alexander* [1861(?)–1887] Ueber die Fischfauna des tertiären Glarnerschiefers. Abh. Schweiz. Paleont. Ges., 1886, **13**. 103 p. 8 pls. 1886.1

—— Der Neo-Lamarckismus und seine Beziehungen zum Darwinismus. Science, 1903, n. s. **17**, 380–382. 1903.1

Wetzel, *G.* Besitzt die Zapfenfaser eine Dreiteilung? Arch. Ges. Physiol., 1908, **124**, 639–641. 1908.1

Weve, *H.* Der Lichtsinn von *Periophthalmus kolreuteri.* Ein Beitrag zur Kenntnis des Lichtsinnes der Fische. Arch. Vergl. Ophthalm., Leipzig, 1913, **3**, 265–278. 2 figs. 1913.1

Wey, *A.* Die natürliche und künstliche Fischzucht, ihre Vermehrung und Fortpflanzung im Sempachersee, Vierwaldstättersee und in der Reuss, mit Angabe der nützlichen und schädlichen Fische. Luzern, 1887. 10 p. 8°. 1887.1

Weyenbergh, *Hendrik* [1842–1885] Bijdrage tot de kennis van het visschengeslacht Xiphophorus Heck. Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1872, 2. ser. **8**, 291–308. 1872.1

—— Bijdrag tot de kennis van Xiphophorus Heck. Amsterdam, 1874. 2 pls. 8°. 1874.1

—— Description détaillée d'une nouvelle espèce de la famille des distomides, savoir *Distoma pulcherrimum.* Bol. Acad. Córdoba, 1875–78, **2**, 354–361. 1875.1

—— Sobre el sistema dental de los Loricarios. Bol. Acad. Nac. Ciencias Córdoba, 1875, **2**, 48–57. 1875.2

—— Algunos nuevos pescados del Museo Nacional y algunas noticias ictiológicas. Buenos Aires, 1877. 21 p. 4 pls. 4°. 1877.1

—— Description de *Distoma pulcherrimum.* Córdoba, 1877. 1877.2

—— Contribución al conocimiento del genero Xiphophorus Heck., un género de pescados vivíparos. Periódico Zoológico, 1878, **2**, 9–28. figs. 1878.1

—— L'enfantement des pœciliés [Pœcilia] Periódico Zoológ., 1878, **2**, 57–62. 1878.2

—— *Hypostomus plecostomus* Val. [*Plecostomus bicirrhosus*] mémoire anatomique pour servir à l'histoire naturelle des loricaires. Periódico Zoológ., 1878, **2**, 63–166; 169–170. — Rev. Mag. Zool., 1877, 3. sér. **5**, 50–52. Also separate; Córdoba & Leipzig, 1876. 116 p. 9 pls. 8°. 1878.3

—— Morphologische aanteekeningen over de Proest-Alen of Symbranchidæ. Periódico Zoológ., 1878, **3**, 278–308. pl. 1878.4

—— Ueber den Kiemenapparat der Symbranchidæ. Zool. Anz., 1881, **4**, 407–409. 1881.1

Weygandt, *C.* Beiträge zur Kenntnis der Spermatogenese bei *Plagiostoma girardi.* Marburg, 1909. 46 p. pl. & 8 figs. 1909.1

Weyl, *Theodor.* Beobachtungen über Zusammensetzung und Stoffwechsel des elektrischen Organs von Torpedo. Monatsber. Akad. Wiss. Berlin, 1881, 381–387. 1881.1

—— Zusammensetzung und Stoffwechsel des elektrischen Organes von Torpedo; physiologische und chemische Studien an Torpedo. No. 1–11. 6 pts. Berlin & Leipzig, 1881–87. 8°. 1881.2

—— Fragebogen, electrische Fische betreffend. Zool. Anz., 1882, **5**, 69–70. 1882.1

—— Physiologische und chemische Studien an Torpedo. Arch. Anat. Physiol. (*Physiol. Abth.*), 1883, 117–124. *Ibid.*, 1884, 316–324. 1883.1

—— *Squaloraja polyspondyla* Hasse. Palæontographica, 1884, 3. ser. **7**, iv. pl. & figs. 1884.1

Weyland, *G. J.* Vischerijen in Friesland en Groningen in 1868. Tijdschr. Nederl. Maatsch., 1869, 284–290. 1869.1

Weymouth, *Frank Walter.* Notes on a collection of fishes from Cameron, Louisiana. Proc. U. S. Nat. Mus., 1910, **38**, 135–145. 2 figs. 1910.1

Weyser, *Arthur Wisswald.* A synoptic textbook of zoology for colleges and schools. New York, 1904. 545 p. illust. 8°. 1904.1

Whaley, *Joseph.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 449. 1879.1

Whalley, *W. E.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 21–26. 1873.1

Wheatland, *R. H.* Notice of several fishes of rare occurrence. Journ. Essex County Nat. Hist. Soc., 1852, **1**, no. 3, 122–125. 1852.1

—— On the change of color at different seasons in fishes. Proc. Essex Inst. 1856–60 (1862), **2**, 364–366. 1862.1

Wheeldon, *J. P.* Angling clubs and preservation societies of London and the provinces. Intern. Fisheries Exhib. Lit., London, 1883. Handbooks, **3**, pt. 2. 1883.1

—— Freshwater fishing (other than salmon) London, 1883. 8°. 1883.2

Wheeler, *L. T.* A new method of protecting the eggs of carp and rearing the young. Bull. U. S. Fish Comm. 1884, **4**, 221–222. 1884.1

Wheeler, *M. W.* The development of the urinogenital organs of the lamprey. Zool. Jahrb. (*Abth. Anat.*), 1899, **13**, 1–88. 7 pls. 1899.1

Wheeler, *R. F.* On the English sea fisheries. Trans. Tyneside Nat. Field Club, 1864, **6**, 63–87. 1864.1

—— Food of the cod [*Gadus morrhua*] and ling [*Molva vulgaris*] Trans. Nat. Hist. Soc. Northumb. Durham, 1867, **1**, pt. 3, 410–411. 1867.1

Wheeler, *William A.* A partial list of the fishes of the Marais des Cygnes, at Ottawa. Trans. Kansas Acad. Sci., 1878, **6**, 33–34. 1878.1

Wheeler, *William Morton* [1865 —] George Baur's life and writings. Amer. Natural., 1899, **33**, 15–30. 1899.1

Wheelwright, *Horace William.* A spring and summer in Lapland; with notes on the fauna of Luleä Lapmark. By an old bushman. London, 1864. 8°. 1864.1

Fish peculiar to these waters, p. 156–166.

—— Ten years in Sweden; being a description of the landscape, climate, domestic life, forests, mines, agriculture, field sports and fauna of Scandinavia. By "an old bushman." London, 1865. xvi, 592 p. 8°. 1865.1

Sea fisheries, p. 66–70. Swedish field sports and fishing, p. 166–202. Fishes, p. 468–592.

Whish, *John D.* The passing of the native brook trout. Trans. Amer. Fisheries Soc. 1905 (1906), 90–95. 1906.1

Whitaker, *Herschel.* The Michigan grayling. Trans. Amer. Fisheries Soc. 1886 (1887), 59–65. 1887.1

—— Presentation of a paper by Jacob Reighard, Experiments in the impregnation of pike perch eggs. Trans. Amer. Fisheries Soc. 1890 (1891), 20–36. 1891.1

This paper is erroneously attributed to Whitaker by the editor of the publication.

—— Early history of the fisheries on the Great Lakes. 10. Rept. State Board Fish Comm. Lansing, Mich., 1893, 172–181. 1893.1

—— Fry *vs.* fingerlings. Trans. Amer. Fisheries Soc. 1892 (1893), 94–98. 1893.2

—— A new hatchery. Trans. Amer. Fisheries Soc. 1909 (1910), 83–88. 1910.1

Whitaker, *William* [1836 —] List of works on the geology, mineralogy and palæontology of Devonshire. Trans. Devonshire Assoc., 1871, **4**, 330–352. 1871.1

—— List of works on the geology, mineralogy and palæontology of Devonshire. Supplemental list, etc. Trans. Devonshire Assoc., 1872, **5**, 404–415. 1872.1

—— List of works on the geology, mineralogy and palæontology of the Hampshire basin. Journ. Proc. Winchester Hampshire Sci. Lit. Soc., 1873, 108–127. 1873.1

—— (*editor*) The geological record for 1874 [–1877] An account of works on geology, mineralogy and palæontology published during the year. 4 vols. London, 1875–80. 8°. 1875.1

—— List of works on the geology, etc., of Cornwall. Journ. Roy. Inst. Cornwall, 1875, no. 16, 61–110. 1875.2

—— List of works on the geology, mineralogy and palæontology of Cheshire. Proc. Liverpool Geol. Soc. 1875 (1876), 127–147. 1876.1

—— List of works on the geology, mineralogy and palæontology of Wales (to the end of 1873) Rept. Brit. Assoc. Adv. Sci., 50. meet., 1880, 397–436. 1880.1

—— A list of works relating to the geology of Cumberland and Westmoreland. Trans. Cumberland Assoc. Lit. Sci., 1882, part 7. 27 p. 1882.2

—— List of works on the geology, mineralogy and palæontology of Staffordshire, Worcestershire and Warwickshire. Rept. Brit. Assoc. Adv. Sci., 55. meet., 1885, 780–813. 1885.1

Whitcher, *W. F.* Practical results of fish-culture in the dominion of Canada. Forest & Stream, 1883, **20**, 408. Also separate; Helsingfors, 1884. 5 p. 8°. 1883.1

Whitcombe, *W. P.* Notes on the acclimatization of fish in Victoria, Australia. Bull. U. S. Fish Comm. 1884, **4**, 31–32. 1884.1

—— Shipment of whitefish eggs to the Ballarat fish acclimatization society. Bull. U. S. Fish Comm. 1885, **5**, 329–330. 1885.1

White, *Adam* [1817–1879] List of British fish, with synonyms. London, 1851. 12°. 1851.1

—— List of the specimens of British animals in the collection of the British Museum. Pt. viii. Fish. London, 1851. xxiii, 164 p. 12°. 1851.2

White, *C. M.* Ability of carp to endure muddy, slimy and stagnant water. Bull. U. S. Fish Comm. 1883, **3**, 444. 1883.1

White, *Charles A.* Memoir of Amos Henry Worthen 1813–1888. Nat. Acad. Sci., Biographical Memoirs, 1895, **3**, 339–362. 1895.1

With bibliography.

White, *George F.*, & **Scott,** *G. G.* *See* **Scott** & **White.**

White, *George F.*, & **Thomas,** *A.* Studies on the absorption of metallic salts by fish in their natural habitat. (1) Absorption of copper by *Fundulus heteroclitus.* Journ. Biol. Chem., 1912, **11**, 381–386. 1912.1

—— New method for the determination of the food value of proteins, with application to *Cynoscion regalis.* Bull. Bur. Fisheries, Washington, 1914, **34.** 6 p. 2 figs. 8°. 1914.1

—— Properties of fish and vegetable oil-mixtures. Bull. Bur. Fisheries, Washington, 1914, **34.** 16 p. 9 figs. 1914.2

White, *George F.*, & **Van Slyke,** *Donald D.* *See* **Van Slyke** & **White.**

White, *Gertrude M.* The behavior of brook trout embryos from the time of hatching to the absorption of the yolk sac. Journ. Animal Behav., 1915, **5**, 44–60. 4 figs. 1915.1

Hatching, swimming movements, reaction to mechanical jars, to touch, to current, to light, to current and light, to CO_2 and feeding reactions.

White, *Gilbert* [1720–1793] The natural history and antiquities of Selborne, in the county of Southampton; with engravings and an appendix. London, 1789. v, 468 p. illust. 4°. 1789.1

For lists of the very numerous subsequent editions of this work, *see* "Bibliography" by C. D. Sherborn, in R. B. Sharpe's edition, 1900, vol. ii, and article on "G. White of Selborne" by W. H. Mullins (Occasional publications, Hastings and St. Leonards Natural History Society, no. 2) 1907.

In these editions the "Naturalist's Calendar," etc., is usually included; whilst the portion relating to the "Antiquities of Selborne" is frequently omitted. The first of these editions is entitled "The Works in Natural History of . . . G. White . . . to which are added a Calendar and Observations, by W. Markwick," 2 vols. 1802, 8°. The advertisement by the editor is signed J. W., *i. e.* John White, the author's nephew. A new edition in which the title is changed to "The Natural History of Selborne," etc., appeared in 1813, 2 vols. 8°, and again in 1822.

White, *H. O.*, & **Treacher,** *L.* On the age and relations of the phosphatic chalk of Taplow. Quart. Journ. Geol. Soc., 1905, **61**, 461–494. figs. 1905.1

White, *J. C.* On the parasites of the *Orthagoriscus mola* (sun-fish) Proc. Boston Soc. Nat. Hist., 1856–59, **6**, 404. 1856.1

White, *J. H.* Large sturgeon in the Ouse. Zoologist, 1873, 2. ser. **8**, 3803–3804. 1873.1

White, *James.* The north Atlantic fisheries dispute. Reprinted from the report of the Commission entitled: Lands, fisheries and game and minerals, 1911. Ottawa, 1911. 62 p. 2 maps. 8°. 1911.1

White, *P.* Observations upon the present state of the Scotch fisheries, and the improvement of the interior parts of the Highlands. Being an essay given in to the Highland Society of Scotland, and to which they were pleased to adjudge their highest prize-medal for the year 1790. Edinburgh, 1791. 12°. 1791.1

White, *Philip J.* The skull and visceral skeleton of the Greenland shark, *Læmargus microcephalus.* Trans. Roy. Soc. Edinburgh, 1893, **37**, 287–306. 2 pls. Abstract in Anat. Anz., 5. Jahrg., 259–261. 1893.1

—— The existence of skeletal elements between the mandibular and hyoid arches in Hexanchus and Læmargus. Anat. Anz., 1895, **11**, 57–60. 3 figs. 1895.1

—— A sternum in *Hexanchus griseus.* Anat. Anz., 1895, **11**, 222–224. figs. 1895.2

—— Note on the extra-branchial cartilages of *Scyllium canicula.* Anat. Anz., 1896, **12**, 158. 1896.1

Whiteaves, *Joseph Frederick* [1835–1909] On a new species of Pterichthys, allied to *Bothriolepis ornata,* from the Devonian rocks of the north side of the Baie des Chaleurs. Amer. Journ. Sci., 1880, 3. ser. **20**, 132–136. 1880.1

—— Description of a new species of Psammodus [*P. bretonensis*] from the Carboniferous rocks of the island of

Whiteaves, *J. F.*
cape Breton. Canadian Naturalist, 1881, 2. ser. **10**, 36. 1881.1

—— On some fossil fishes, crustacea and mollusca from the Devonian rocks at Campbellton, N. B., with descriptions of five new species. Canadian Naturalist, 1881, 2. ser. **10**, 93–101. fig. 1881.2

Describes *Coccosteus acadicus, Cephalaspis campbelltonensis, Ctenacanthus latispinosus* and Homacanthus sp.

—— On some remarkable fossil fishes from the Devonian rocks of Scaumenac bay, Province of Quebec, with descriptions of a new genus and three new species. Canadian Naturalist, 1881, 2. ser. **10**, 27–35. — Amer. Journ. Sci., 3. ser. **21**, 494–496. — Ann. Mag. Nat. Hist., 5. ser. **8**, 159–162. 1881.3

Diplacanthus striatus ?, Phaneropleuron curtum, Eusthenopteron foordii, Glyptolepis microlepidotus and *Cheirolepis canadensis* are described.

—— Recent discoveries of fossil fishes in the Devonian rocks of Canada. Proc. Amer. Assoc. Adv. Sci., 31. meet., 1882, 353–356. — Amer. Naturalist, **17**, 158–164. 1882.1

—— Catalogue of Canadian pinnipedia, cetacea, fishes and marine invertebrates. Ottawa, 1886. 42 p. 8°. 1886.1

—— Illustrations of the fossil fishes of the Devonian rocks of Canada. Part I–II. Trans. Roy. Soc. Canada 1886 (1887), **4**, 101–110. 5 pls. *Ibid.*, 1889, **6**, 77–96. 6 pls. 1887.1

Bothriolepis canadensis, Acanthodes mitchelli, A. concinnus, Phaneropleuron curtum, Glyptolepis quebeckensis, Eusthenopteron foordii, Cheirolepis canadensis and 3 species of Acanthodes are described, also several ichthyodorulites.

—— On some fossils from the Hamilton formation of Canada, with a list of the species at present known from that formation and province. 3. The fossils of the Triassic rocks of British Columbia. 4. On some Cretaceous fossils from British Columbia, the northwest territory, and Manitoba. Geol. Nat. Hist. Surv. of Canada, Contrib. Canad. Palæont., 1889, pt. 2, art. 2, 91–196. 14 pls. 1889.1

—— Contributions to Canadian palæontology. Vol. I. Part iv. The fossils of the Devonian rocks of the islands, shores, or immediate vicinity of lakes Manitoba and Winnipegosis. Geological Survey of Canada, Ottawa, 1892. 359 p. 47 pls. 1892.1

Certain fossil fishes are described and figured, p. 353–354.

—— Note on a fish tooth from the Upper Arisaig series of Nova Scotia. Canadian Record Sci., 1898, **7**, 461–462. fig. — Rept. Brit. Assoc. Adv. Sci., 67. meet., 1897, 656–657. 1898.1

Describes *Dendrodus arisaigensis* from rocks supposed to be of Silurian, possibly Devonian, age.

—— On some additional or imperfectly understood fossils from the Hamilton formation of Ontario, with revised list of the species therefrom. Appendix (revision of nomenclature) Geological Survey of Canada Contr. Canad. Palæont., 1898, **1**, pt. 5, 361–436. 3 pls. & 4 figs. 1898.2

—— The Devonian system in Canada. Science, 1899, 2. ser. **10**, 402–412; 430–438. — Proc. Amer. Assoc. Adv. Sci., 48. meet., 1899, 193–223. 1899.1

—— Bibliography of Canadian zoology for 1900, exclusive of entomology. Trans. Roy. Soc. Canada, 1901, 2. ser. **7**, sect. 4, 87–91. 1901.1

—— Bibliography of Canadian zoology for 1900, exclusive of entomology. Supplement. Trans. Roy. Soc. Canada, 1902, 2. ser. **8**, sect. 4, 149–150. 1902.1

—— Bibliography of Canadian zoology for 1901. Trans. Roy. Soc. Canada, 1902, 2. ser. **8**, sect. 4, 151–155. 1902.2

—— Bibliography of Canadian zoology for 1902, exclusive of entomology. Trans. Roy. Soc. Canada, 1903, 2. ser. **9**, 4. sect., 163–167. 1903.1

—— Bibliography of Canadian zoology for 1904. Trans. Roy. Soc. Canada, 1906, 2. ser. **11**, sect. 4, 65–69. 1906.1

—— Bibliography of Canadian zoology for 1905 (exclusive of entomology, but inclusive of papers on foreign zoological subjects by Canadian writers) Trans. Roy. Soc. Canada, 1906, 2. ser. **12**, sect. 4, 27–32. 1906.2

—— Bibliography of Canadian zoology for 1906. Trans. Roy. Soc. Canada, 1907, 3. ser. **1**, sect. 4, 209; 211–218. 1907.1

—— Illustrations of Devonian rocks of Canada. Part iii. Supplementary notes. Trans. Roy. Soc. Canada, 1907, 3. ser. **1**, sect. 4, 245–266. 4 pls. 1907.2

Whitehead, *John* [1860–1899] Exploration of mount Kina Balu, North

Borneo. (Appendix) London, 1893. x, 317 p. illust. 4°. 1893.1

Sur les poissons des eaux douces de Bornéo, par L. Vaillant.

Whitehouse, *Richard H.* The caudal fin of fishes (preliminary paper) Proc. Roy. Soc. London, 1910, **82** *B*, 134–143. 4 figs. 1910.1

—— The caudal fin of the Teleostomi. Proc. Zool. Soc. London, 1910, 590–629. 4 pls. 1910.2

—— Some remarks on the teleostean caudal fin. Ann. Mag. Nat. Hist., 1910, 8. ser. **5**, 426–428. 1910.3

—— Evolution of the caudal fin of fishes. Rept. Brit. Assoc. Adv. Sci., 83. meet., 1914, 522–523. 1914.1

Whiteway, *Richard Stephen.* The Portuguese expedition [of C. da Gama] to Abyssinia in 1541–1543, as narrated by [M. de] Castanhoso . . . Translated and edited by R. S. Whiteway. Hakluyt Society Works, 1903, 2. ser. no. 10. 1903.1

Whitfield, *Edward.* An account of the rare fish *Regalecus glesne,* caught off Cullercoats . . . March, 1849. London, 1849. 16 p. illust. 8°. 1849.1

Whitfield, *Robert Parr* [1828–1910] Biographical notice by Gratacap, L. P. and bibliography by Hussakof, L. Ann. N. Y. Acad. Sci., 1911, **20**, pt. 3, 385–398. pl.

—— Observations on a fossil fish from the Eocene beds of Wyoming. Bull. Amer. Mus. Nat. Hist., 1890, **3**, 117–120. pl. 1890.1

Describes *Protocatostomus constablei,* sp. nov., a gonorhynchid species identical with *Notogoneus osculus* Cope.

Whitfield, *Robert Parr,* & **Hovey,** *Edmund Otis.* Catalogue of the types and figured specimens in the palæontological collection of the geological department, American Museum of Natural History. Bull. Amer. Mus. Nat. Hist., 1900–01, **11**, 347–349; 473–476. 1900.1

Whiting, *A. J.* On the comparative history and physiology of the spleen. Trans. Roy. Soc. Edinburgh, 1897, **38**, 253–316. 3 pls. 1897.1

Whitley, *E.* A note on the effect of acid, alkali and certain indicators in arresting or otherwise influencing the development of the eggs of *Pleuronectes platessa* and *Echinus esculentus.* Proc. Roy. Soc. London, 1906, **77**, 137–149. 1906.1

Whitman, *Charles Otis* [1843–1910] For biographical notice, *see* Morse, E. S., in Biog. Mem. Nat. Acad. Sci., 1913, **7**, 269–288. Also Davenport, C. B., in Amer. Naturalist, 1917, **51**, 5–30.

—— The embryology of Clepsine [with reference to the concrescence of teleosts] Quart. Journ. Micr. Sci., 1878, n. s. **18**, 101–106. 4 pls. 1878.1

—— Do flying-fish fly? Amer. Naturalist, 1880, **14**, 641–653. 1880.1

—— On the flight of the flying-fish. Zoologist, 1880, 3. ser. **4**, 471–481. 1880.2

Whitman, *Charles Otis,* & **Agassiz,** *Alexander. See* **Agassiz** & **Whitman.**

Whitman, *Charles Otis,* & **Eycleshymer,** *A. C.* The egg of Amia and its cleavage. Journ. Morphol., 1897, **12**, 309–354. 2 pls. & 20 figs. 1897.1

Whitman, *Levi.* A topographical description of Wellfleet in the county of Barnstable. Coll. Mass. Hist. Soc., 1794, 1. ser. **3**, 119–121. 1794.1

Whitmee, *S. J.* On the habits of the fishes of the genus Antennarius. Proc. Zool. Soc. London, 1875, 543–546. 1875.1

—— On the manifestation of anger, fear and other passions in fishes, and on the use of their spines. Proc. Zool. Soc. London, 1878, 132–134; 221–222. 1878.1

Whitmore, *C. S.* Shipment of salmon and whitefish to New Zealand in 1877 and 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 854. 1880.1

Whitwell, *James R.* Ephysis cerebri in *Petromyzon fluviatilis.* Journ. Anat. Physiol., 1888, **22**, pt. 4, 502–504. 1888.1

Whymper, *Charles* [1853 —] Pictures of British fishes. London, 1897. pls. 8°. 1897.1

Whymper, *Frederick.* The fisheries of the world; an illustrated and descriptive record of the international fisheries exhibition, 1883. London & New York, 1884. 376 p. illust. 4°. 1884.1

Wichand, *Bernhard.* Meine beobachtungen beim Brutgeschäft des drei- und zehnstachligen Stichlings (*Gasterosteus aculeatus* und *G. pungitius*) im Aquarium. Nerthus, Altona, 1904, **6**, 349–354; 374–378. 1904.1

—— Lebendgebärende Zahnkarpfen (*Pœciliidæ viviparæ*) Blätt. Aquar.-

Wichand, *B.* Terrar. Kunde, 1906, 17. Jahrg., 463–469; 475–476; 484–485; 495–496; 503–504; 515–516. 1906.1

Wichmann, *Carl Ernst Arthur* [1851 —] Nova Guinea. Uitkomsten der nederlandsche Nieuw-Expeditie in 1903, onder leiding van . . . A. Wichmann (In 1907 en 1909 onder leiding van . . . H. A. Lorentz. In 1912 en 1913 onder leiding van A. Franssen-Herderschee) Vol. i. Leiden, 1906. illust. 4°. 1906.1

Süsswasserfische, von M. Weber, vol. v, part 2.

Wicht, *V.* Tratado de piscicultura de aqua dulce. Madrid, 1905. 219 p. 8°. 1905.1

Wickart, *A.* Zug's Fischerei. Zug, 1891. 108 p. fol. 1891.1

Wicke, *Wilhelm.* Aschenanalysen von Hecht-Schuppen. Ann. Chem. Pharm., 1853, **95**, 375–376. 1853.1

Wickes, *W. H.* The Rhaetic bone beds. Proc. Bristol Nat. Soc., 1904, n. s. **10**, 213–227. 1904.1

—— Pebble - swallowing animals. Proc. Bristol. Nat. Soc., 1908, 4. ser. **2**, pt. 1, 25–31. 1908.1

Stomach stones in fishes.

Widakowich, *Viktor.* Bau und Funktion des Nidamentalorgans von *Scyllium canicula.* Centralbl. Physiol., 1905, **18**, 787–788. 1905.1

— Ueber Bau und Funktion des Nidamentalorgans von *Scyllium canicula.* Zeitschr. Wiss. Zool., 1906, **80**, 1–21. 2 pls. 1906.1

—— Ueber den Uterus von *Squalus acanthias.* Bemerkungen zur Entwicklungsgeschichte der Haie. Zeitschr. Wiss. Zool., 1907, **88**, 499–544. 2 pls. & 5 figs. 1907.1

—— Ueber eine Verschlussvorrichtung im Eileiter von *Squalus acanthias.* Zool. Anz., 1907, **31**, 636–643. 2 figs. 1907.2

—— Ueber einen Musculus sphincter uterorum bei *Torpedo ocellata* und über das Hymen der Plagiostomen. Arch. Anat. Physiol. (*Anat. Abth.*), 1908, 352–370. 5 figs. 1908.1

—— Wie gelangt das Ei der Plagiostomen in den Eileiter? Ein Beitrag zur Kenntnis des Venensystems von *Scyllium canicula.* Zeitschr. Wiss. Zool., 1908, **91**, 640–658. pl. & 2 figs. 1908.2

Widdrington, *S. E.* On the habits of the eel, and on the freshwater fish of Austria. Rept. Brit. Assoc. Adv. Sci., 11. meet., 1841, pt. 2, 71–72. — Ann. Mag. Nat. Hist., **8**, 207–210. 1841.1

Widegren, *Hjalmar.* Om fisk-faunan och fiskerierna i Norrbottens Län; reseberättelse afgifven den 10den Mars 1860. Stockholm, 1860. 8°. 1860.1

—— Bidrag till kännedomen om Sverges salmonider. Oefvers. K. Vet. Akad. Förh. 1862 (1863), **19**, 517–594. 10 pls. 1863.1

—— Om fisk-faunan i hoanne Wennern och Veldern. Kgl. Landtbr. Akad. Tidskrift., 1863, pts. 5–7. 1863.2

—— Onderzoek betreffende de zalmachtige visschen van Zweden en nieuwe bijdragen betreffende deze vischsoort. 2 vols. Stockholm, 1863–64. pls. 8°. 1863.3

—— Om fiskodling och den resultater. Kgl. Landtbr. Akad. Tidskrift., 1864, pts. 6–7. *Ibid.*, 1865, pt. 1. 1865.1

—— Nya bidrag till kännedomen om Sveriges salmonider. Oefvers. K. Vet. Akad. Förh. 1864 (1865), **21**, 279–305. 7 pls. 1865.2

—— Om inplantering of lax i söt vatten. Kgl. Landtbr. Akad. Tidskrift, 1865, pt. 2. 1865.3

—— Om udstillingen i Bergen 1865. Kgl. Landtbr. Akad. Tidskrift, 1865, pt. 6. 1865.4

—— Handlingar och upplysningar rörande sveriges fiskerier afgafna af fiskeri-inrendenten vid kongl. Landbruks-Akademien. 5 parts. Stockholm, 1866–70. 8°. 1866.1

—— Echelles pour les saumons. Kgl. Landtbr. Akad. Tidskrift, 1867, pt. 3. 1867.1

—— De svenska fiskarternas natural historia. Stockholm, 1870. pls. 1870.1

—— Fiskerierna vid kusterna af Gotland, Kalmar och Ostergötland. Fiskeritidsskr., 1870, 5. Jahrg., 111–115. 1870.2

—— Om sillfisket e Oresund. Fiskeritidsskr., 1870, 4. Jahrg., 340–362. 1870.3

—— Die Fischerei an den Küsten von Gothland, Kalmar und Ostgothland. Circul. Deutsch. Fischerei Ver., 1871, no. 5, 28–30. 1871.1

—— Ueber Fischzucht. Annal. Landw., 1871, 29. Jahrg., **58**, 239–244. 1871.2

—— Bericht über Schwedens Fischereien im Jahre 1869. Circul. Deutsch. Fischerei Ver., 1872, no. 4, 108–112. 1872.1

—— Einige Worte über die Häringsartigen Fische [Clupeidæ] sowie über die richtige Bereitung des Härings oder Strömlings' zur Handelswaare. Circul. Deutsch. Fischerei Ver., 1872, 1. Jahrg., no. 4, 104–108. 1872.2

—— Nagra ord om sillfiske samt om sillens eller strömmigens rätta beredning till handelsvara. Fiskeritidsskr., 1872, 6. Jahrg., 63–80. 1872.3

—— Kurze Mittheilungen über die Fischereien in Schweden. Circul. Deutsch. Fischerei Ver., 1873, no. 7, 267–270. 1873.1

—— Kort vägledning för Oestersjö-Fiskets rätta vard och bedrifvande. Stockholm, 1874. 1874.1

—— Nagra ord till ledning vid fiskets bedrifvande i sveriges injöar och vattendrag. Norsk. Tidskr. Fiskeri, 1874, 1. Jahrg., 174–186. 1874.2

—— On the herring and its preparation as an article of trade. Rept. U. S. Fish Comm. 1873–75 (1876), **3**, 183–193. 1876.1

—— Short introduction to the proper care and management of the Baltic fishery. Rept. U. S. Fish Comm. 1878 (1880), **6**, 117–141. Also separate; Washington, 1880. 8°. 1880.1

Wieber, *J. D.* Ueber die Verkrümmung der Wirbelsäule bei Fischen. Allgem. Fischerei Zeitg., 1903, 28. Jahrg., 55–56. 1903.1

Wiedek, *Theodor.* Die Schill (Zander) Fischerei. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 140. 1878.1

Wiedemann, *A.* Die in den Gewässern des Regierungs-Bezirkes von Schwaben und Neuburg vorkommenden Fische. Ber. Natur. Ver., Augsburg, 1885, 1–68. Also separate; Augsburg, 1885. 8°. 1885.1

Wiedemann, *Christian Rudolph Wilhelm* (*translator*) [1770–1840] Cüvier's elementarischer Entwurf der Naturgeschichte der Thiere, aus dem Französischen übersetzt und mit Anmerkungen versehen, von C. R. W. Wiedemann. 2 vols. 1800. 8°. 1800.1

Wiedersheim, *Robert Ernst Eduard* [1848 —] Notiz über spinalartige Hirnnerven bei Ammocœtes. Verh. Schweiz. Naturf. Ges. St. Gallen, 1869, **62**, 66. 1869.1

—— Petromyzon. On the brain and the spinal-like nerves of the brain in the Ammocœtes form. Zool. Anz., 1879, **2**, 589–592. 1879.1

—— Das Gehirn von Ammocœtes und *Petromyzon planeri* mit besonderer Berücksichtigung der spinalartigen Hirnnerven. Jena. Zeitschr. Naturw., 1880, **14**, 1–24. — Morphol. Studien (Wiedersheim), 1880, 1. Heft, 3–26. 1880.1

—— Das Skelet und Nervensystem von *Lepidosiren annectens* (Protopterus) Jena. Zeitschr. Naturw., 1880, **14**, 155–192. 2 pls. — Morphol. Studien (Wiedersheim), 1880, **1**. Heft, 43–82. 1880.2

—— Die spinalartigen Hirnnerven von Ammocœtes und *Petromyzon planeri*. Eine Erwiederung an Herrn Prof. A. Schneider. Zool. Anz., 1880, **3**, 446–449. 1880.3

—— Zur Histologie der Dipnoër-Schuppen. Arch. Mikr. Anat., 1880, **18**, 122–129. pl. — Also separate; Bonn, 1880. pl. 8°. 1880.4

—— Ueber das Becken der Fische. Morphol. Jahrb., 1882, **7**, 326–327. 2 figs. 1882.1

—— Grundriss der vergleichenden Anatomie der Wirbeltiere. Jena, 1884. xi, 272 p. illust. 8°. 1884.1

—— Lehrbuch der vergleichenden Anatomie der Wirbeltiere, auf Grundlage der Entwicklungsgeschichte. 2. ed. Jena, 1886. 890 p. 614 illust. 8°. 1886.1

—— Zur Urgeschichte der Gliedmassen der Wirbelthiere. Stuttgart, 1886. 15 figs. 4°. 1886.2

—— Das Geruchsorgan der Tetrodonten nebst Bemerkungen über die Hautmuskulatur derselben (In Festschrift A. von Kölliker zur Feier seines siebenzigsten Geburtstages gewidmet von seinen Schülern, p. 73–84. pl. Leipzig, 1887) 1887.1

—— On the degeneration of the olfactory organ of certain fishes. Rept. Brit. Assoc. Adv. Sci., 57. meet., 1887, 736–738. 1887.2

—— On the torpid state of Protopterus. Rept. Brit. Assoc. Adv. Sci., 57. meet., 1887, 738–740. 1887.3

Wiedersheim, *R. E. E.*

—— Ueber rudimentäre Fischnasen. Anat. Anz., 1887, 2. Jahrg., 652–657. 4 figs. 1887.4

—— Zur Biologie von Protopterus. Anat. Anz., 1887, 2. Jahrg., 707–713. fig. 1887.5

—— Zur Urgeschichte des Beckens und über die Entwicklung des Schulter- und Beckengürtels. Freiburg, 1888–89. 8°. 1888.1

—— Ueber die Entwicklung des Schulter- und Beckengürtels. Anat. Anz., 1889, **4**, 428–441. 1889.1

Fische, p. 428–432.

—— Weitere Mittheilungen über die Entwicklungsgeschichte des Schulter- und Beckengürtels. Teleostier. Anat. Anz., 1890, 5. Jahrg., 13–19. figs. 1890.1

—— Das Gliedmassenskelet der Wirbelthiere, mit besonderer Berücksichtigung des Schulter- und Beckengürtels bei Fischen, Amphibien und Reptilien. Jena, 1892. 266 p. 17 pls. figs. 8°. 1892.1

—— Elements of the comparative anatomy of vertebrates. Adapted from the German . . . by W. N. Parker. 2. ed. London, 1897. xvi, 488 p. figs. 1897.1

Review in Nature, 1897, **58**, no. 1505, 409–410.

—— Grundriss der vergleichenden Anatomie der Wirbelthiere. 4. ed. Jena, 1898. 559 p. pls. & 386 figs. 8°. 1898.1

—— Brutpflege bei niederen Wirbelthieren. Biol. Centralbl., 1900, **20**, 304–316; 321–342. figs. 1900.1

—— Cure parentali nei pesci. Rivist. Biol. General., Como, 1901, **3**, 102–103. 1901.1

—— Nachträgliche Bemerkungen zu meinen Aufsatz über den Kehlkopf der Ganoiden und Dipnoer. Anat. Anz., 1904, **24**, 651–652. 1904.1

—— Ueber das Vorkommen eines Kehlkopfes bei Ganoiden und Dipnoern sowie über die Phylogenie der Lunge. Zool. Jahrb. (*Suppl.*), 1904, **7**, 1–66. 6 pls. & fig. 1904.2

—— Ueber den Kehlkopf der Ganoiden und Dipnoër. Anat. Anz., 1904, **22**, 522–535. 9 figs. 1904.3

—— Vergleichende Anatomie der Wirbeltiere. Für Studierende bearbeitete 6., umgearbeitete und stark vermehrte Auflage des "Grundriss der vergleichende Anatomie der Wirbeltiere." Jena, 1906. xix, 799 p. pl. 1906.1

Wied-Neuwied, (*Prince*) *Maximilian Alexander Philipp zu* [1782–1867] Reise nach Brasilien in den Jahren 1815–1817. 2 vols. & atlas. Frankfurt-a.-M., 1820–21. illust. 4° & fol. 1820.1

Translated into French by J. B. B. Eyriès. 3 vols. & atlas. Paris, 1821–22. illust. 8° & fol.

—— Beiträge zur Naturgeschichte von Brasilien. 4 vols [in 5] Weimar, 1825–33. illust. 8°. 1825.1

Vols. iii & iv are styled "2. Abtheilung." Fishes occupy 22 pls.

—— Brasilien. Nachträge, Berichtungen und Zusätze zu der Beschreibung meiner Reise im östlichen Brasilien. Frankfurt-a.-M., 1850. iv, 144 p. 8°. 1850.1

Translated into French by J. B. B. Eyriès. Francfurt-sur-le-Mein, 1853. 109 p. 8°.

—— Berichtigende Notiz über die Färbung einiger Fische. Arch. Naturgesch., 1853, 19. Jahrg., 13–16. 1853.1

—— Bericht über die Fortschritte der Zoologie im Jahre 1834. Arch. Naturgesch., 1835, 2. Jahrg., 268. 1835.1

Wiegmann, *Arend Friedrich August* [1802–1841] Observationes zoologicæ criticæ in Aristotelis historiam animalium. Lipsiæ, 1826. 39 p. 4°. 1826.1

Wiegmann, *William H.* Chub mackerel in Gravesend bay. Copeia, 1914, no. 11, 3. 1914.1

Wiegmann, *William H.*, & **Nichols,** *John Treadwell. See* **Nichols & Wiegmann.**

Wiehle, *Emil.* Unser Flussaal, *Anguilla anguilla* L. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 591–593; 607–610; 622–623. 3 figs. 1910.1

Wieland, *G. R.* The conservation of the great marine vertebrates: imminent destruction of the wealth of the seas. Pop. Sci. Monthly, 1908, 425–430. 1908.1

Wiele, *C. Van de.* Note sur l'Helicoprion et les Edestidés. Bull. Soc. Belge Géol., Paléont., Hydrogéol., etc., 1899, **13**, 233–234. 1899.1

Wierzbowski, *M.* Wykaz niektórych ryb znajdujcąych się w Prucie koło Delatyna [List of fishes occurring in Prut on the Delatyn] Kosmos. Lwów. Roczn., 1880, **5**, 333–335. 1880.1

Wierzejski, *A.* Beitrag zur Kenntnis der sogenannten Pochenkrankheit der Karpfen. Mitth. Westpreuss. Fischerei Ver., 1887, no. 8. 1887.1

—— Ueber Myxosporiden des Karpfens. Anz. Akad. Wiss. Krakau, März, 1898. 1898.1

Wiesner, *J. von.* Abwehr des Vereins zur Förderung der naturwissenschaftlichen Erforschung der Adria in Wien gegen die Angriffe seines Ausschussmitgliedes und wissenschaftlichen Mitarbeiters Prof. Dr. Steuer. Naturwissenschaften, 1914, 2. Jahrg., 65–66. 1914.1

Wigg, *George.* On the insensibility of the German carp to freezing. Bull. U. S. Fish Comm. 1881 (1882), **1**, 402. 1882.1

Wigg, *Thomas J.* Notes on the herring fishery of 1905. Trans. Nat. Soc. Norwich, 1906, **8**, 307–312; 599–603; 763–765. 1906.1

—— Notes on the herring fishery of 1909. Trans. Nat. Soc. Norwich, 1910, **9**, 73–78. 1910.1

—— Notes on the Yarmouth herring fishery of 1912. Zoologist, 1913, 4. ser. **17**, 72–74. 1913.1

Wight, *John.* Sturgeon fishing in the Ural river. Strand Mag., 1901, 404–409. illust. 1901.1

Wignall, *A.*, & **Johnstone,** *Jas.* Description of the fisheries cruiser, " James Fletcher." Rept. Lancashire Sea-Fisheries Lab., 1908, 35–64. pl. & 3 figs. 1908.1

Wijhe, *J. W. van.* Over het visceraalskelet en de zenuwen van den kop der ganoiden. Leiden, 1880. 132 p. 2 pls. 8°. 1880.1

—— Ueber das Visceralskelett und die Nerven des Kopfes der Ganoiden und von Ceratodus. Niederl. Arch. Zool., 1882, **5**, 207–320. 2 pls. 1882.1

—— Ueber die Mesodermsegmente und die Entwicklung der Nerven des Selachierkopfes. Verh. K. Akad. Wiss., Amsterdam, 1882, **22**, 1–50. pls. Also separate; Amsterdam, 1882. 5 pls. 4°. 1882.2

—— Die Betheiligung des Ectoderms an der Entwicklung des Vornierenganges. Zool. Anz., 1886, **9**, no. 236, 633–635. 1886.1

—— Ueber die Kopfsegmente und die Phylogenie des Geruchsorganes der Wirbelthiere. Zool. Anz., 1886, **9**, no. 238, 678–682. 1886.2

—— Bemerkung zu Dr. Rückert's Artikel über die Entstehung der Excretionsorgane bei Selachiern. Zool. Anz., 1888, **11**, 539–540. 1888.1

—— Ueber die Entwicklung des Exkretionssystems und anderer Organe bei Selachiern. Anat. Anz., 1888, 3. Jahrg., 74–76. 1888.2

—— Ueber die Mesodermsegmente des Rumpfes und die Entwicklung des Exkretionssystems bei Selachiern. Arch. Mikr. Anat., 1889, **33**, 461–516. 4 pls. 1889.1

—— Over de opvattung eener spinale zenuw als complex van twee zelfstandige zenuwen. Ver Versl. Akad. Wet. Amsterdam, Wis. Nat. Afd., 1897, **5**, 273–281. 1897.1

—— Ueber die Beteiligung des Ektoderms an der Bildung des Vornierenganges bei Selachiern. Anat. Anz. (Verh. Anat. Ges.), 1898, **14**, 31–37. 7 figs. 1898.1

—— Beiträge zur Anatomie der Kopfregion des *Amphioxus lanceolatus.* Petrus Camper, 1901, **1**, 109–194. 4 pls. 1901.1

—— Ueber die Entwicklung des Kopfskeletts bei Selachiers. C. R. 6. Intern. Congr. Zool. Berne, 1904 (*Sect. Vert. Anat.*), 319–322. 1904.1

—— Die Homologisierung des Mundes des Amphioxus und die primitive Leibesgliederung der Wirbeltiere. Petrus Camper, 1906, **4**, 61–102. pl. 1906.1

—— Over de Metamorphose van *Amphioxus lanceolatus.* Vers. Wis.-Nat. Afd. Akad. Wet. Amsterdam, 1913, **21**, 1549–1558. — Proc. Sect. Sci. Akad. Wet. Amsterdam, 574–583. 1914.1

Loss of primitive mouth. Homology with left spiracle of selachians.

—— Studien über Amphioxus. I. Mund und Darmkanal während der Metamorphose. Verh. Akad. Wet. Amsterdam, 1914, 2. ser. **18**, no. 1. 84 p. 5 pls. 1914.2

Beschreibung der Metamorphose des Mundes und des Prosenteron. Ilio-Colonring und Ventralwärtswachsen der Kiemenspalten. Tremostoma und Asymmetrie des Prosenterons. Kolbenformige Drüse und Copelatenstadium. Amphioxus und Tunicaten aus einer gemeinsamen Form mit 2 Paaren Kiementaschen hinter dem Mund.

Wikberg, *E.* Om fiskeriförhållandena i trakten af Willmanstrand. Fiskeritidskr. Finl, 1895, **4**, 14. 1895.1

Wikström, *Don Arthur.* Kalojen äänestä. Valvoja, 1889, **9**, 338–349. 1889.1

—— *Engraulis encrasicholus.* Meddel. Soc. Fauna Flora Fenn., 1893, **19**, 2–3. 1893.1

—— Ueber die Innervation und den Bau der Myomeren der Rumpfmusculatur einiger Fische. Anat. Anz., 1897, **13**, 401–408. 1897.1

—— Ueber den Bau und die Innervation der Myomeren bei den Petromyzonten und Myxinoiden. C. R. Congr. Nat. Médecin. Nord, Helsingfors, 1903, pt. 6, 12–15. 1903.1

Wilbraham, (*Sir*) *Richard* [1811–1900] Travels in the Trans-Caucasian provinces of Russia and along the southern shore of the lakes of Van and Urumiah in . . . 1837. London, 1839. xvii, 477 p. illust. 8°. 1839.1

Wilbrand, *Johann Bernhard* [1779–1846] Ueber den Thorax der Fische, und insbesondere über die wahren und unächten Rippen und über das Brustbein derselben. Isis (Oken), 1824, 982–986. 1824.1

—— Ueber den Brustkasten der Fische. Isis (Oken), 1838, 575–576. 1838.1

Wilckens, *Rudolf.* Paläontologische Untersuchung triadischer Faunen aus der Umgebung von Predazzo in Südtirol. Verh. Naturhist. Medicin. Ver. Heidelberg, 1909, **10**, 81–231. 4 pls. 1909.1

Wilcocks, *James C.* The sea-fisherman, or fishing pilotage, comprising the chief methods of hook and line fishing in the British and other seas, and remarks on nets, boats and boating. London, 1868. 196 p. pls. 12°. 1868.1

—— The fish of the Channel islands. Fish. Gazette, 1877, **2**, 5–6. 1877.1

—— The best means of increasing the supply of mussels for bait (In Fish and fisheries, edited by David Herbert, p. 155–171. Edinburgh, 1883. 8°) 1883.1

Fish baits, p. 163–165.

—— The history and statistics of the pilchard fishery in England (In Fish and fisheries, edited by David Herbert, p. 290–303. Edinburgh & London, 1883) 1883.2

—— Improved fishery harbour accommodation for Great Britain and Ireland. Intern. Fisheries Exhib. Lit., London, 1883. Conferences, **9**, pt. 1. 1883.3

—— Seine-trawling and beam-trawling in estuaries and sea-lochs in Scotland; their advantages and disadvantages (In Fish and fisheries, edited by David Herbert, p. 280–289. Edinburgh & London, 1883) 1883.4

Wilcox, *Joseph.* Fish killed by cold along the gulf of Mexico and coast of Florida. Bull. U. S. Fish Comm. 1886 (1887), **6**, 123. 1887.1

Wilcox, *Lander.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5**, 431. 1879.1

Wilcox, *William A.* Reappearance of young cod hatched by the United States Fish Commission. Bull. U. S. Fish Comm. 1883, **3**, 439. 1883.1

—— New England fisheries from January 1 to March 31, 1885. Bull. U. S. Fish Comm. 1885, **5**, 162–166. 1885.1

Also reports for the months from April to August in later pages of the same volume.

—— The fisheries of New Hampshire (In The fisheries and fishery industries of the United States, edited by George Brown Goode, pt. 2, p. 103–112. Washington, 1887) 1887.1

—— A man killed by a sword-fish. Bull. U. S. Fish Comm. 1886 (1887), **6**, 417–418. 1887.2

—— New England fisheries in September, 1885. Bull. U. S. Fish Comm. 1886 (1887), **6**, 33–39. 1887.3

Also reports for the months from October, 1885, to December, 1886, in later pages of the same volume.

—— The fisheries of Gloucester, Mass., in January, 1887, with notes on those of other localities. Bull. U. S. Fish Comm. 1887 (1889), **7**, 68–69. 1889.1

Also reports for the months from February to June in p. 68–80 of the same volume.

—— Notes on the frozen herring trade with Newfoundland and the bay of Fundy during the winter of 1886–87. Bull. U. S. Fish Comm. 1887 (1889), **7**, 71–73. 1889.2

—— Commercial fisheries of Indian river, Florida. Rept. U. S. Fish. Comm. 1896 (1898), **22**, 249–262. pls. 1898.1

—— Notes on the fisheries of the Pacific coast in 1895. Rept. U. S. Fish Comm. 1896 (1898), **22**, 575–659. 1898.2

—— Notes on the foreign fishery trade and local fisheries of Porto Rico. Rept. U. S. Fish Comm. 1899 (1900), **25**, 1–34. 6 pls. & fig. 1900.1

—— Notes on the fisheries of the Pacific coast in 1899. Rept. U. S. Fish Comm. 1901 (1902), **27**, 501–574. 2 pls. & 19 figs. 1902.1

—— The fisheries and fish trade of Porto Rico in 1902. Rept. U. S. Fish Comm. 1902 (1903), **28**, 367–395. 1903.1

—— The commercial fisheries of the Pacific coast states in 1904. Rept. U. S. Fish Comm. 1905 (1906), no. 612. 74 p. 1906.1

Wilcox, *William A.*, **Bean,** *Barton A.*, & **Evermann,** *Barton Warren*. *See* **Bean, Evermann & Wilcox.**

Wilcox, *William A.*, & **True,** *Frederick W*. *See* **True & Wilcox.**

Wilczewski, —— De cerebro *Cyprini carpionis* dissertatio. Berolinum, 1837. 8°. Abstract in Arch. Anat. Physiol. (Müller), 1838, clii. 1838.1

Wild, *Gustav*. Lachse im Neckar. Allgem. Fischerei Zeitg., 1896, 21. Jahrg., 415–416. 1896.1

—— Einige Mitteilungen über Fische und Fischerei in Heilbronn. Jahreshefte Württemberg, 1903, **59**, 304–314. 1903.1

Wilde, (*Sir*) *William Robert Wills* [1815–1876] Narrative of a voyage to Madeira, Teneriffe and along the shores of the Mediterranean, including a visit to Algiers, Egypt, Palestine, Tyre, Rhodes, Telmessus, Cyprus and Greece. With observations on . . . the climate, natural history . . . etc., of the countries visited. 2 vols. London, 1840. illust. 8°. 1840.1

Wilder, *Burt Green* [1841 —] For list of scientific publications, *see* The Wilder Quarter-century book, p. 1–8. Ithaca, N. Y., 1893. vi, 493 p. illust. 8°.

—— Beast, bird and fish. Harper's New Monthly Mag., 1869, **40**, 21–31. 1869.1

—— How a fish swims. Scient. Amer., 1870, **22**, 24. 1870.1

—— Intermembral homologies. The correspondence of the anterior and posterior limbs of vertebrates. Proc. Boston Soc. Nat. Hist. 1870–71 (1872), **14**, 154–232. 5 figs. 1872.1

—— Lateral position of the vent in Amphioxus and in the larvæ of *Rana pipiens*. Proc. Amer. Assoc. Adv. Sci., 22. meet. 1873 (1874), 275–300. figs. 1874.1

—— Note on the development and homologies of the anterior brain-mass with sharks and skates. Amer. Journ. Sci., 1876, 3. ser. **12**, 103–105. fig. 1876.1

—— Notes on the North American ganoids, Amia, Lepidosteus, Acipenser and Polyodon. Proc. Amer. Assoc. Adv. Sci., 24. meet. 1875 (1876), pt. 2, 151–196. 3 pls. 1876.2

—— On the brains of fishes. Proc. Acad. Nat. Sci. Philad., 1876, 51–53. 1876.3

—— Garpikes, old and young. Pop. Sci. Monthly, 1877, **11**, 1–12; 186–195. 17 figs. 1877.1

—— Notes on the western mud-fish, *Amia calva*. Proc. Boston Soc. Nat. Hist., 1877, **18**, 337. 1877.2

—— On the brain of *Chimæra monstrosa*. Proc. Acad. Nat. Sci. Philad., 1877, 219–250. pl. 1877.3

—— On the brains of some fish-like vertebrates. Abstract in Proc. Amer. Assoc. Adv. Sci., 25. meet. 1876 (1877), 257–259. 1877.4

—— On the serrated appendages of the throat of Amia. Proc. Amer. Assoc. Adv. Sci., 25. meet. 1876 (1877), 259–263. 1877.5

—— On the tail of Amia. Abstract in Proc. Amer. Assoc. Adv. Sci., 25. meet. 1876 (1877), 264–267. pl. 1877.6

—— Sur le cerveau du *Chimæra monstrosa*. Journ. Zool. (Gervais), 1877, **6**, 405–407. 1877.7

—— Aërial respiration in the mud-fish. Proc. Boston Soc. Nat. Hist., 1878, **19**, 337. 1878.1

—— On a remnant of the spiracle in Amia and Lepidosteus. Amer. Naturalist, 1878, **19**, 192. 1878.2

—— On the respiration of Amia. Proc. Amer. Assoc. Adv. Sci., 26. meet. 1877 (1878), 306–313. 1878.3

—— Experiments antagonizing the view that the serrulæ (serrated appendages) of Amia are accessory respiratory organs. Proc. Amer. Assoc. Adv. Sci., 34. meet. 1885 (1886), 313–315. 1886.1

Wilder, *B. G.*
—— The dipnoan brain. Amer. Naturalist, 1887, **21**, 544–548. 3 figs. 1887.1

—— Remarks on classification of Vertebrata. Amer. Naturalist, 1887, **21**, 913–917. 1887.2

—— The Wilder quarter-century book: a collection of original papers dedicated to . . . B. G. Wilder . . . by some of his former students. Ithaca, N. Y., 1893. vi, 493 p. 28 pls. illust. 8°. 1893.1

Temperature and vertebræ, a study in evolution, by D. S. Jordan, p. 13–36.
The lake and brook lampreys of New York, especially those of Cayuga and Seneca lakes, by S. H. Gage, p. 421–493.

—— The brains of various "fishes," including the rare Japanese shark, Mitsukurina. Science, 1905, n. s. **21**, 268–269. 1905.1

—— The conference of neurology and vertebrate zoology of Cornell University. Science, 1905, n. s. **21**, no. 535, 513. 1905.2

—— On the brains of Scymnus, Mitsukurina and Chlamydoselachus, with remarks upon selachian brains from standpoints morphic, ontogenic, taxonomic, phylogenic and pedagogic. Science, 1905, n. s. **21**, no. 543, 812–814. 1905.3

—— Some little-known shark brains, with suggestions as to methods. Science, 1907, n. s. **25**, 733. 1907.1

—— What we owe to Agassiz. Pop. Sci. Monthly, 1907, **71**, 1–20. 1907.2

—— The brain of Rhinochimæra. Proc. Amer. Phil. Soc., 1908, **47**, 37–38. 1908.1

—— The name and brain of the gar. Science, 1912, n. s. **35**, 691–693. 1912.1

Wildinson, *A. G.* Blind salmon of the Gaspé rivers. Forest & Stream, 1874, **3**, 37. 1874.1

Wildner, *E.* Laichgeschäft des *Danio analipunctatus* Boul. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 34–36. fig. 1912.1

—— Nochmals *Danio analipunctatus* Boul. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 295–297. 1912.2

—— Rückschläge bezw. Veränderungen bei gescheckten Varietäten, im besonderen bei gescheckten *Girardinus januarius* und *Platypœcilus maculatus* var. *pulchra.* Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 194–196. 3 figs. 1912.3

Wildwood, *Will,* pseudonym for **Pond,** *F. E.*

Wilhelm, *G. T.* Unterhaltungen aus der Naturgeschichte. 27 vols. Augsburg, 1817–24. pls. 1817.1

Fishes, vols. ix & x. 96 pls.

Wilhelmi, *J.* Einleitung der Abwasser in das Meer. Wasser und Abwasser (Zentralbl. Wasserversorgung) 1911, **4**, 178–195; 222–242. 1911.1

Angaben über *Box salpa* als Schmutzwasserfisch und die mögliche Verwendung der Gattung Box zur Abwasserreinigung.

Wilkins *(junior), J. T.* The fisheries of the Virginia coast. Bull. U. S. Fish Comm. 1893 (1894), **13**, 355–356. 1894.1

Wilkins, *S.*, & **Bolton,** *T.* The Midland naturalist. Birmingham Nat. Hist. Micr. Soc., 1881. figs. 1881.1

Wilkins, *S. A.* Fresh fish in salt water. Chicago Field, 1878, **9**, 404. 1878.1

Will (*pseudon.*) California salmon for Tennessee. Forest & Stream, 1879, **12**, 105. 1879.1

—— The basses of Tennessee. Forest & Stream, 1880, **15**, 129. 1880.1

Will, —— Die Fischerei und ihre Bedeutung für den Forstmann. Forstwiss. Centralbl., 1911, 55. Jahrg., 318–330. 1911.1

Willard, *W. A.* A double embryo of the spiny dogfish (*Squalus acanthias*) Anat. Record, 1915, **9**, 140. 1915.1

Willcox, *M. A.* Notes on the occipital region of the trout, *Trutta fario.* Zool. Bull., Boston, 1899, **2**, 151–154. fig. 1899.1

Willebrand, *Knut Felix von.* En på Aland uppträdande fisksjukdom. Oefvers. Finsk. Vet. Soc. Förh., 1864, **6**, 24. 1864.1

—— Om fisklefveroljans fysikaliska egenskaper. Oefvers. Finsk. Vet. Soc. Förh., 1866, **8**, 49–50. 1866.1

Willem, *V.*, & **Schoenlein,** *K. See* **Schoenlein** & **Willem.**

Willemoes-Suhm, *Rudolf von* [1847–1875] Ueber einige Münster'sche Fisch-Spezies. Neues Jahrb. Mineral., 1868, 831–833. 1868.1

—— Ueber Cœlacanthus und einige verwandte Gattungen. Palæontographica 1867–70 (1869), **17**, pt. 2, 73–88. — Neues Jahrb. Mineral., 1870, 659. — Verh. Geol. Reichsanst. Wien, 1869, 399–400. 2 pls. 1869.1

—— [Bemerkungen zu Huxley's Beschreibung von Cœlacanthen-Resten] Neues Jahrb. Mineral., 1870, 211–212. 1870.1

—— On Cœlacanthus. Quart. Journ. Geol. Soc. London, 1870, **26**, pt. 2, 12. 1870.2

—— Von der "Challenger"-Expedition. Zeitschr. Wiss. Zool., 1875, **26**, 4. Heft, lxxvii–xcvi. 1875.1

Willequet, *E.* Fish-culture in Belgium. Bull. U. S. Fish Comm. 1883, **3**, 218–220. 1883.1

—— Fish-culture in Belgium. Proposed government action. Bull. U. S. Fish Comm. 1883, **3**, 437–439. 1883.2

Willer, *A.* Bandwurmseuche (Ligulosis) der Brachsen oder Bleie (*Abramis brama*) [n. pl.] 1912. 2 pls. 1912.1

Willett, *Henry* [— 1905] Catalogue of the Cretaceous fossils in the Brighton Museum. Presented by H. Willett. Brighton, 1871. 66 p. 8°. 1871.1

Willey, *Aron,* & **Mitchill,** *Samuel Latham. See* **Mitchill** & **Willey.**

Willey, *Arthur* [1867 —] The later larval development of Amphioxus. New York, 1891. 3 pls. 1891.1

—— Amphioxus and the ancestry of the vertebrates. New York, 1894. xiv, 316 p. illust. 8° (Columbia University biological series, no. 2) 1894.1

With bibliography. Preface by H. F. Osborn.

—— Zoological observations in the south Pacific. Quart. Journ. Micr. Sci., 1896, **39**, 219–231. pl. Abstract in Journ. Roy. Micr. Soc. London, 1897, pt. 4, 275–276. 1896.1

—— Remarks on some recent work on the Protochorda, with a condensed account of some fresh observations on the Enteropneusta. Quart. Journ. Micr. Sci., 1899, n. s. **42**, 223–224. 3 figs. 1899.1

—— *Dolichorhynchus indicus,* n. g., n. sp. A new acraniate. Quart. Journ. Micr. Sci., 1901, 2. ser. **44**, 269–271. 2 figs. 1901.1

—— The mahseer and the murrel in Ceylon. Spolia Zeylanica, 1903, **1**, 19–22. fig. 1903.1

—— Constitution of the fauna of Ceylon. Spolia Zeylanica, 1904, **1**, 1–13. 1904.1

—— Leaf-mimicry. Spolia Zeylanica, 1904, **2**, 51–55. fig. Abstract in Nature, **80**, 247. 1904.2

Mimicry of *Platax vespertilio.*

—— A guide to the collections in the Colombo museum. Spolia Zeylanica, 1906, **3**, 1–66. 1906.1

Fishes, p. 44–46.

—— [Review of] Dr. Richard Goldschmidt's monograph of Amphioxides. Quart. Journ. Micr. Sci., 1906, 2. ser. **50**, 581–597. 7 figs. 1906.2

—— Fisheries of New South Wales. Spolia Zeylanica, 1908, **5**, 188–190. 1908.1

—— Fishery observations. Spolia Zeylanica, 1908, **5**, 144–152. pl. 1908.2

—— *Rhynchobdella aculeata* in Ceylon. Nature, 1908, **77**, 345. 1908.3

—— Observations on the nests, eggs and larvæ of *Ophiocephalus striatus.* Spolia Zeylanica, 1909, **6**, 108–123. 2 pls. & fig. 1909.1

—— The occurrence of Solenostoma [*S. laciniatum*] off the coast of Ceylon. Spolia Zeylanica, 1909, **6**, 102–107. pl. & 2 figs. 1909.2

—— Notes on the freshwater fisheries of Ceylon. Spolia Zeylanica, 1910, **7**, 88–105. 2 pls. & 3 figs. 1910.1

Willey, *Arthur,* & **Lankester,** *(Sir) Edwin Ray. See* **Lankester** & **Willey.**

Willey, *Day Allen.* The salmon fisheries of the northwest. Scient. Amer., 1905, **93**, 462–463. 4 figs. 1905.1

William of Rubruk, (*Friar*) [also called **Rubruquis**] The journal of Friar William de Rubruquis (In The travels of Sir John Mandeville, p. 261–325. London, 1915) 1915.1

See also notes under Mandeville, Sir John, 1916.1, and Odoric of Pordenone, 1916.1, *supra.*

Williams, —— Florida, with sketches of the natural history. New York, 1839. 3 pls. 8°. 1839.1

Williams, *Archibald.* Book of the sea. New York, 1916. 8°. 1916.1

This book considers the world's fisheries, among other topics relating to the sea, such as ocean depths, tides, currents, temperature, etc.

Williams, (*Rev.*) *David.* On the discovery of the remains of fishes at the base of the Mountain Limestone in the

Williams, *D.*
vicinity of Bristol. Rept. Brit. Assoc. Adv. Sci., 12. meet., 1842, pt. 2, 60–61. 1842.1

—— The maigre (*Sciæna aquila*) in Carmarthen. Zoologist, 1863, **21**, 8771 1863.1

Williams, *Griffith.* An account of the island of Newfoundland, with the nature of its trade, and method of carrying on the fishery, with reasons for the great increase of that most valuable branch of trade. London, 1766. 8°. 1766.1

Williams, *Henry Shaler* [1847 —] Notes on some fish-remains from the Upper Devonian rocks in New York State. Proc. Amer. Assoc. Adv. Sci., 30. meet. 1881 (1882), 192–193. 1882.1

Describes *Dipterus ithacensis.*

—— On the plates of *Holonema rugosa.* Proc. Amer. Assoc. Adv. Sci., 39. meet. 1890 (1891), 337. 1891.1

—— On the ventral plates of the carapace of the genus Holonema of Newberry. Amer. Journ. Sci., 1893, 3. ser. **46**, 285–288. figs. 1893.1

Williams, *Herbert Upham.* Notes on the fossil fishes of the Genesee and Portage black shales. Bull. Buffalo Soc. Nat. Sci., 1886, **5**, 81–84. pl. 1886.1

Williams, *Roger* [c. 1600–1684] Of fish and fishing in New England. Reprinted in Coll. Rhode Island Hist. Soc., 1827, **1**, and in Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 164. 1873.1

The native Indian names of various fishes are given. *See also* Trumbull, J. H., 1873.1, *supra.*

Williams, *R. P.* On the spawn of the salmon. Nat. Hist. Review, 1853–54, **1**, 157–158. 1853.1

Williams, *Samuel.* The natural and civil history of Vermont. Walpole, N. H., 1794. 416 p. 12°. 1794.1

2. ed. 2 vols. Boston, 1809. 12°.
Fisheries, p. 120–125; 135.

Williams, *Stephen Riggs* [1870 —] The changes in the facial cartilaginous skeleton of the flat-fishes, *Pseudopleuronectes americanus* and *Bothus maculatus.* Science, 1901, n. s. **13**, 378–379. 1901.1

— Changes accompanying the migration of the eye and observations on the tractus opticus and tectum opticum in *Pseudopleuronectes americanus.* Bull. Mus. Comp. Zool. Cambridge, 1902, **40**, 1–57. 5 pls. & 7 figs. 1902.1

Williams, *W. L.* On a specimen of sunfish captured at Poverty bay. Proc. Trans. New Zealand Inst., 1893, **25**, 110–111. pl. 1893.1

Williamson, *E. B.* Fishes taken near Salem, Ohio. Ohio Naturalist, 1901, **2**, 165–166. 1901.1

Williamson, *E. B.*, & **Osburn,** *Raymond C.* *See* **Osburn & Williamson.**

Williamson, *E. B.*, **Parker,** *J. B.*, & **Osburn,** *Raymond C.* *See* **Parker, Williamson & Osburn.**

Williamson, *H.* Proeven omtrent den *Gymnotus electricus* of den electrischen aal. Verh. Holl. Maatsch. Wet. Haarlem, [n. d.] **17**, 201–221.

Williamson, *Henry Charles.* Investigations into the structure and development of the scales and bones of fishes [Edinburgh] 1850. 4 pls. 4°. 1850.1

—— On the rate of growth of certain marine food-fishes. 11. Ann. Rept. Fishery Board Scotland, 1893, 265–273. 1893.1

—— On the anatomy of the pectoral arch of the grey gurnard (*Trigla gurnardus*) with special reference to its innervation. 12. Ann. Rept. Fishery Board Scotland, 1894, 322–332. 4 pls. 1894.1

—— List of the pelagic ova, larvæ and young fishes procured by the S. S. "Garland" and boat "Dalhousie" in 1894–1895. 13. Ann. Rept. Fishery Board Scotland, 1895, 258–270. 1895.1

—— On the reproduction of the eel. 13. Ann. Rept. Fishery Board Scotland, 1895, pt. 3, 192–219. 1895.2

—— On the variation in size of certain pelagic ova. 13. Ann. Rept. Fishery Board Scotland, 1895, 271–275. 1895.3

—— Note on the stomachs and reproductive organs in a sea trout and 6 herrings caught (July 9, 1895) 28 miles off Montrose. 14. Ann. Rept. Fishery Board Scotland, 1896. 1896.1

—— Report . . . on the life-history of the eel and on the absorption of the yolk in pelagic teleostean ova. Rept. Brit. Assoc. Adv. Sci., 66. meet., 1897, 479–481. 1897.1

—— Notes on some points in teleostean development. 16. Ann. Rept. Fishery Board Scotland, 1898, pt. 3, 211–218. 2 pls. 1898.1

—— On the pelagic fish-eggs and larvæ of loch Fyne. 17. Ann. Rept.

Fishery Board Scotland, 1899, 79–131. 5 pls. 1899.1

—— On the mackerel of the east and west coasts of Scotland. 18. Ann. Rept. Fishery Board Scotland, 1900, 294–329. 3 figs. 1900.1

—— A comparison between the cod (*Gadus callarias* Linn.), the saithe (*G. virens* Linn.), and the lythe (*G. pollachius* Linn.), in respect to certain external and osteological characters. 20. Ann. Rept. Fishery Board Scotland, 1902, pt. **3**, 228–287. 8 pls. 1902.1

—— On the postlarval and early young stages of the witch (*Pleuronectes cynoglossus* Linn.) 22. Ann. Rept. Fishery Board Scotland, 1904, pt. 3, 270–273. pl. 1904.1

—— On the specific characters of *Gadus luscus*, *Gadus minutus* and *Gadus esmarkii*. 24. Ann. Rept. Fishery Board Scotland, 1906, pt. 3, 116–158. 3 pls. & 22 tables. 1906.1

—— On two cases of hermaphroditism in the cod (*Gadus callarias*) 24. Ann. Rept. Fishery Board Scotland, 1906, pt. 3, 290–292. 2 pls. 1906.2

—— On the specific characters of the haddock (*Gadus æglefinus* Linn.) whiting (*Gadus merlangus* Linn.) *Gadus poutassou* Risso; *Gadus argenteus* Guichenot; *Gadus saida* Lepechin; *Gadus ogac* Richardson; *Gadus navaga* Kœlreuter; with a key to the species of Gadus found in northern waters. 26. Ann. Rept. Fishery Board Scotland, 1909, pt. 3, 97–134. 6 pls. & diagram. 1909.1

—— Experiments to show the influence of cold in retarding the development of the eggs of the herring (*Clupea harengus* L.) plaice (*Pleuronectes platessa* L.) and haddock (*Gadus æglefinus* L.) 27. Ann. Rept. Fishery Board Scotland, 1910, pt. 3, 100–128. pl. 1910.1

—— On the herrings of the Clyde and other districts. 27. Ann. Rept. Fishery Board Scotland, 1910, pt. 3, 13–67. 1910.2

—— The retardation of the development of the ova of the herring. Rept. Fisheries Board Sci. Invest., Glasgow, 1910, no. 2, 1–12. pl. 1910.3

—— Experiment in retarding the development of the eggs of the herring. 28. Ann. Rept. Fishery Board Scotland, 1911, pt. 3, 16–23. pl. 1911.1

—— Notes on the eggs of the angler (*Lophius piscatorius*) halibut (*Hippoglossus vulgaris*) *Conger vulgaris* and tusk (*Brosmius brosme*), a young Arnoglossus sp.; abnormalities in Lophius, Gadus, Raia; diseases in Gadus, Pleuronectes, Onos, Zoarces; occurrence of *Himantolophus rheinhardti*, and *Clupea pilchardus;* the effectiveness of a seine-trawl in a small pond. 28. Ann. Rept. Fishery Board Scotland, 1911, pt. 3, 46–67. 5 pls. 1911.2

—— Report on diseases and abnormalities in fishes. Rept. Fisheries Board Sci. Invest., Glasgow, 1911, no. 2, 3–39. 8 pls. 1911.3

—— Report on the reproductive organs of *Sparus centrodontus* Delaroche; *Sparus cantharus* L., *Sebastes marinus* (L.) and *Sebastes dactylopterus* (Delaroche), and on the ripe eggs and larvæ of *Sparus centrodontus* and *Sebastes marinus*. Rept. Fisheries Board Sci. Invest., Glasgow 1910 (1911), no. 1. 35 p. 5 pls. 1911.4

—— On the eggs of certain skates (Raia) Rept. Fisheries Board Sci. Invest., Glasgow, 1912, no. 1. 6 p. 5 pls. 1912.1

—— A short résumé of the researches into the European races of herrings and the method of investigation. Fisheries Scotland Sci. Invest., 1914, no. 1. 22 p. 7 figs. 1914.1

Williamson, *Henry Charles,* & **Tosh,** *J. R.* List of some pelagic ova, larvæ and young fishes obtained by the S. S. "Garland" and boat "Dalhousie" in 1894. 12. Ann. Rept. Fishery Board Scotland, 1894, **12**, pt. 3, 298–301. 1894.1

Williamson, *Hugh* [1735–1819] Experiments and observations on the *Gymnotus electricus* or electrical eel. Phil. Trans. Roy. Soc. London, 1775, **65**, pt. 1, 94–107. 1775.1

Williamson, *William Crawford* [1816–1895] On the affinity of some fossil scales of fish from the Lancashire Coal Measures with those of the recent Salmonidæ. London & Edinburgh Phil. Mag. & Journ. Sci., 1837, 3. ser. **11**, 300–301. pl. 1837.1

—— On fossil fishes in the Lancashire coal field. Proc. Geol. Soc. London, 1838, **2**, 571–572. — Phil. Mag., London, 3. ser. **12**, 86. 1838.1

—— A notice on the fossil fishes of the Yorkshire and Lancashire coalfields.

Williamson, *W. C.*
Proc. Geol. Soc. London, 1842, **3**, 153–154. — Ann. Mag. Nat. Hist., **4**, 459–460. 1842.1

—— On the microscopic structure of the scales and dermal teeth of some ganoid and placoid fishes. Phil. Trans. Roy. Soc. London, 1849, 435–475. 4 pls. 1849.1

—— Sur la structure microscopique des écailles et des dents dermales de quelques poissons ganoïdes et placoïdes. L'Institut, 1850, **18**, no. 847, 102–103. 1850.1

—— Investigations into the structure and development of the scales and bones of fishes. Phil. Trans. Roy. Soc. London, 1851, 643–702. 1851.1

Willis, *Bailey* [1857 —] Index to the stratigraphy of North America, accompanied by a geologic map of North America. U. S. Geol. Survey, Profess. Paper 71, Washington, 1912. 894 p. & map. fol. 1912.1

A useful reference work in connection with American fossiliferous horizons and formation names.

Willis, *H.* Shad fisheries of the Susquehanna river fifty-six years ago. Bull. U. S. Fish Comm. 1881 (1882), **1**, 261–263. 1882.1

Willis-Bund, *John William.* Salmon problems. London, 1885. vi, 215 p. 12°. 1885.1

Contains considerable matter relative to the natural history of the salmon.

—— The influence of weather on the migration of fish. Journ. Nat. Fish-Cult. Assoc., 1887, **1**, 26–34. 1887.1

—— A handy book of fishery management. London, 1899. xii, 280 p. 12°. 1899.1

—— Fishes (In his Victoria history of the county of Worcester, vol. i, p. 131–136. London, 1901) 1901.1

—— The migration of salmon as affected by the changed condition of the river Severn. Verh. 5. Intern. Zool. Congr. Berlin, 1902, 986–989. 1902.1

—— Salmon migration. C. R. 6. Congr. Intern. Zool. Berne 1904 (1905), 698–702. 1905.1

Williston, *Samuel Wendall* [1852 —] For list of scientific publications, *see* Bibliography of Samuel Wendall Williston. New Haven, 1911. 19 p. 8°.

—— New or little-known extinct vertebrates. Kansas Univ. Quarterly, 1894, **3**, 165–176. Abstract by M. Schlosser. Arch. Anthrop., **25**, 183. 1894.1

—— Vertebrate remains from the lowermost Cretaceous. Kansas Univ. Quarterly, 1894, **3**, 1–4. pl. 1894.2

—— Notice of some vertebrate remains from the Kansas Permian. Kansas Univ. Quarterly, 1897, **6**, 53–56. 2 figs. — Science, n. s. **5**, 395. — Trans. Kansas Acad. Sci., **15**, 120–122. 1897.1

—— A new genus of fishes from the Niobara Cretaceous. Kansas Univ. Quarterly, 1899, **8**, 113–115. pl. 1899.1

—— A new species of Sagenodus from the Kansas Coal Measures. Kansas Univ. Quarterly, 1899, **8**, 175–181. 4 pls. 1899.2

—— Cretaceous fishes [of Kansas] Selachians and pycnodonts. Univ. Geol. Surv. Kansas, 1900, **6**, 237–256. 8 pls. 1900.1

This is a reprint of "Some fish-teeth from the Kansas Cretaceous."

—— Some fish-teeth from the Kansas Cretaceous. Kansas Univ. Quarterly, 1900, **9**, 27–42. 9 pls. 1900.2

—— [Review of] Grundzüge der Paläontologie. Von Karl A. von Zittel. II. Abteilung. Vertebrata. Journ. Geol., 1912, **20**, 91–93. 1912.1

Williston, *S. W.*, & **Case,** *E. C.* The Permo-Carboniferous of northern New Mexico. Journ. Geol., 1912, **20**, 1–12. 2 figs. 1912.1

Willkommen, *Heinrich Moritz* [1821–1895] Spanien und die Balearen. Reiseerlebnisse und Naturschilderungen, nebst wissenschaftlichen Zusätzen und Erläuterungen . . . Neue Ausgabe. Berlin, 1879. x, 350 p. illust. 8°. 1879.1

Wills, *L. J.*, & **Smith,** *W. Campbell.* Notes on the flora and fauna of the Upper Keuper Sandstones of Warwickshire and Worcestershire. Geol. Mag., 1913, 5. ser. **10**, 461–462. — Rept. Brit. Assoc. Adv. Sci., 83. meet., 1914, 475–478. 1913.1

Willughby, *Francis* [1635–1672] I [–X] Tabula . . . Pisces ex Raii emendata ichthyologia Willughbeii forma minori descripti, etc. Augusta Vindelicorum, 1789. fol. 1789.1

The engraved title-page to the plates of Willughby's Historia Piscium is also reproduced in miniature with the legend altered to read, "F. Willughbeii Ichthyographia. Totum opus recognovit, coaptavit, supplevit J. Ray . . .

1586. Nunc forma effigies edidit negotium Acad. Cæsareo Francisce cum gratia et privilegio. S. C. Mey. Aug. Vind., A. D. 1786." An original plate by Kirschner representing "Ein . . . rarer Fisch" is included at the end.

Willumsen, *Peter Jonassen.* Fra oresund [Hornfisks og makrels aftagen] Fiskeritid. Finl., 1882, 17–19. 1882.1

—— Om aalen. Dansk Fiskeriforen. Medlemsbl., 1892, 1. Jahrg., 1–4; 13–17; 30–32; 42–45; 50–53. 1892.1

—— Om "fiskeperioder" Dansk Fiskeriforen. Medlemsbl., 1892, 1. Jahrg., 249–251; 266–268. 1892.2

—— Forskellige slags aaleyngel. Dansk Fiskeriforen. Medlemsbl., 1895, 4. Jahrg., 414–415. 1895.1

—— Om aaleudsætning i gurresoen. Dansk Fiskeriforen. Medlembsbl., 1897, 6. Jahrg., 361–363; 369–370. 1897.1

—— "Kortsnudede" torsk. Dansk Fiskeriforen. Medlemsbl., 1901, 10. Jahrg., 511. 1901.1

—— Lidt om fiskenes klogskab. Dansk Fiskeriforen. Medlemsbl., 1901, 10. Jahrg., 229–232. — Lystfiskeritid., 1901, no. 82, 651–654. 1901.2

Wilmot, *Samuel.* Artificial hatching of whitefish. Forest & Stream, 1875, **5**, 259. 1875.1

—— Aquiculture and fish protection. Trans. Amer. Fisheries Soc. 1875 (1876), 23–34. 1876.1

—— The spawning season for black bass. Forest & Stream, 1876, **6**, 195. 1876.2

—— California salmon in lake Ontario. Forest & Stream, 1877, **8**, 419. 1877.1

—— Canadian fish-culture. Trans. Amer. Fisheries Soc. 1877 (1878), 50–59. 1878.1

—— Notes on the western gizzard shad, *Dorosoma cepedianum heterurum* (Raf.) Jordan. Proc. U. S. Nat. Mus., 1878, **1**, 263–264. — Smithson. Misc. Coll., 1880, **19**, art. 1. 1880.1

—— Unsuccessful transportation of California salmon eggs. Rept. U. S. Fish Comm. 1878 (1880), **6**, 755. 1880.2

—— Introduction of California salmon into Ontario, with remarks on the disappearance of Maine salmon from that province. Bull. U. S. Fish Comm. 1881 (1882), **1**, 347–349. 1882.1

—— Remarks on the scarcity of male and grilse salmon in the rivers of Ontario, Canada. Bull. U. S. Fish Comm. 1881 (1882), **1**, 379–381. 1882.2

Wilms, *Max.* Ueber die Dermoidsystem und Teratome, etc. Deutsches. Arch. Klin. Med., 1895, **55**, 1–108. 1895.1

Wilmsem, *Fr. Ph.* Vollständiges Handbuch der Naturgeschichte für die Jugend und ihre Lehrer; zweite verbesserte und vermehrte Auflage, mit Vorrede von H. Lichtenstein und Fr. Klug. 3 vols. Berlin, 1831. 8°. 1831.1

Fishes, vol. ii.

Wils, *Henricus Boursse.* Observationes quasdam anatomicas comparatas de *Squatina lævi*, quam annuente summo numine, etc. Lugduni-Batavorum, 1844. 56 p. pl. Inaug. Dissert. 1844.1

Wilschowitz, *Hans.* Beitrag zur Kenntnis der Kreide-Ablagerungen von Budigsdorf und Umgebung. Beitr. Paläont. Geol. Oesterr.-Ungarn, 1906, **19**, 125–134. 8 figs. 1906.1

Wilson, *Alfred W. G.* Chubs' nests. Amer. Naturalist, 1907, **41**, 323–327. 3 figs. 1907.1

Wilson, *Andrew.* Giant fishes. Fish. Gazette, 1877, no. 22, p. 4. 1877.1

—— Dentition of the wolf-fish. Chicago Field, 1879, **11**, 236–237. 1879.1

—— The wolf-fish [*Anarrhichas lupus*] Nature, 1879, **19**, 556–557. figs. 1879.2

Wilson, *C. H.* The whitefish — minimum size limits — the scales vs. the yard stick. Trans. Amer. Fisheries Soc. 1912 (1913), 89–100. 1913.1

Wilson, *Charles,* **Eigenmann,** *Carl H.*, & **Henn,** *Arthur. See* **Eigenmann, Henn & Wilson.**

Wilson, *Charles A.* Raising brook trout in mineral water. Bull. U. S. Fish Comm. 1882 (1883), **2**, 392. 1883.1

Wilson, *Charles Branch* [1861 —] North American parasitic copepods of the family Argulidæ, with a bibliography of the group and a systematic review of all known species. Proc. U. S. Nat. Mus., 1902, **25**, 635–742. 20 pls. 1902.1

Reviewed by T. N. Gill in Science, 1903, n. s. **17**, 33.

—— The newly hatched larva of *Argulus megalops.* Science, 1903, n. s. **17**, 484–485. 1903.1

Wilson, *C. B.*

—— A new species of Argulus, with a more complete account of two species already described. Proc. U. S. Nat. Mus., 1904, **27**, 627–655. 38 figs. 1904.1

Detailed description of structure and development of *A. americanus* from the bowfin, *A. versicolor* from pickerel, and *A. trilineata* from goldfish.

—— The fish parasites of the genus Argulus found in the Woods Hole region. Bull. Bur. Fisheries 1904 (1905), **24**, 115–131. 31 figs. 1905.1

Refers to fishes, mostly marine, of Woods Hole region. Description of eggs and larvæ of fish lice.

—— Additional notes on the development of the Argulidæ, with description of a new species. Proc. U. S. Nat. Mus., 1907, **32**, 411–424. 4 pls. 1907.1

The male of *A. catostomi* is described from the redfin and blackfin suckers; also the larva of *S. maculosus* from the redeye and catfish. *Argulus appendiculosus* is described from the sucker and the development of the genus is discussed.

—— North American parasitic copepods. A list of those found upon the fishes of the Pacific coast, with descriptions of new genera and species. Proc. U. S. Nat. Mus., 1908, **35**, 431–481. 17 pls. 1908.1

Among others from marine fish are noted those from freshwater fishes: *Lernæopoda extumescens* from humpbacked whitefish; *Actheres coregoni* from whitefish; *Lepeophtheirus salmonis* from the humpbacked salmon, *Argulus pugettensis* from the coho, *Lepeophtheirus pacificus*, *L. salmonis*, *Lernæopoda californiensis*, *L. falculata* from red salmon; *Caligus gurnardi*, *Lepeophtheirus salmonis*, *Lernæopoda beani* from the king salmon; *Lepeophtheirus salmonis*, *Lernæopoda gibber*, *L. bicauliculata* from Dolly Varden.

—— Jamaica fish and their parasites. Johns Hopkins Univ. Circ., 1911, no. 2, 16–23. 1911.1

—— North American parasitic copepods belonging to the family Ergasilidæ. Proc. U. S. Nat. Mus., 1911, **39**, 263–400. 1911.2

Only one subfamily, Ergasilinæ, includes typical freshwater forms. Common on bass, perch, sunfish, pike, carp; occasional on others.

—— North American parasitic copepods. Description of new genera and species. Proc. U. S. Nat. Mus., 1911, **39**, 625–634. pls. 65–68. 1911.3

Records and describes *Lernæopoda inermis* from lake herring in Great Lakes.

—— North American parasitic copepods. Part 9. The Lernæopodidæ. Proc. U. S. Nat. Mus., 1911, **39**, 189–226. 1911.4

Full account of the development of *Achtheres ambloplitis*, common on rock bass and occasional on other Centrarchidæ. Infection occurs when fish feeding near surface take larvæ into mouth and expel them through gills, giving them opportunity to grasp the gill filaments.

Wilson, *D. Wright*, & **Lyman,** *John F.* Creatine in the muscle tissue of the lamprey. Proc. Soc. Exper. Biol. Med., 1913, **11**, 22. 1913.1

Wilson, *E. R.* Shad in landlocked waters. Forest & Stream, 1876, **6**, 85. 1876.1

—— The basking shark in the Pacific. Forest & Stream, 1877, **8**, 17. 1877.1

Wilson, *Edmund Beecher* [1856 —] Thomas Harrison Montgomery. Arch. Zellforsch., 1912, **9**, 348–350. 1912.1

Wilson, *Edward.* On the Murray river cod, with particulars of experiments instituted for introducing this fish in the river Yarro-Yarra. Trans. Phil. Inst. Victoria, 1858, **2**, 23–34. 1858.1

Wilson, *Edward* [1848–1898] Fossil fish-remains from the Carboniferous limestone of south Derbyshire. Midland Naturalist, 1880, **3**, 172–174. 1880.1

—— Notes on the Triassic beds at Colwick Wood, near Nottingham (In Newton, E. T. On the remains of fishes from the Keuper of Warwick and Nottingham. Quart. Journ. Geol. Soc. London, 1887, **43**, 542–543) 1887.1

—— Fossil types [Pisces] in the Bristol museum. Geol. Mag., 1890, 3. dec. **7**, 366–369; 413–414. 1890.1

—— A list of the fossil types and described specimens in the Bath Museum (In Winwood, H. H. Charles Moore . . . and his work, etc. Proc. Bath Nat. Hist. Antiq. Field Club, 1892, **7**. 64 p.) 1892.1

Wilson, *F. W.* On the habits of the Lepidosiren, or mudfish, in confinement. Liverpool Nat. Journ., 1867, 133–134. 1867.1

Wilson, *G. V.* Marine bands in the Millstone grit of Wharfedale. Proc. Yorkshire Geol. Soc., 1910, n. s. **17**, 83–86. pl. 1910.1

Wilson, *George.* On the electric fishes as the earliest electric machines employed by mankind. Edinburgh New Phil. Journ., 1857, **5**, 267–288. 1857.1

—— On the employment of the electrical eel, *Gymnotus electricus*, as a medical shock-machine by the natives of Surinam. Rept. Brit. Assoc. Adv. Sci., 29. meet. 1859 (1860), 158–159. 1860.1

—— Notes on how fish find food. Rept. Brit. Assoc. Adv. Sci., 63. meet., 1893, 548–551. 1893.1

—— Embryonic excretory organs of Ceratodus. Preliminary notice. Proc. Roy. Phys. Soc. Edinburgh, 1901, **14**, 321–323. 1901.1

—— The first foundation of the lung of Ceratodus. Preliminary notice. Proc. Roy. Phys. Soc. Edinburgh, 1901, **14**, 319–321. 3 figs. 1901.2

Wilson, *Henry V.* On the development of the sea bass (*Serranus atrarius*) Johns Hopkins Univ. Circ., 1890, **9**, 56–59. figs. 1890.1

—— The embryology of the sea bass (*Serranus atrarius*) Bull. U. S. Fish Comm. 1889 (1891), **9**, 209–277. 20 pls. & 12 figs. Review in Amer. Naturalist, 1891, **25**, 1020–1027. 1891.1

—— On the origin of the vertebrate sense organs. Journ. Elisha Mitchell Sci. Soc., 1897, **14**, 56–61. 1897.1

—— Marine biology at Beaufort. Amer. Naturalist, 1900, **34**, 339–360. 4 pls. & fig. 1900.1

—— Zoology in America before the present period. Journ. Elisha Mitchell Sci. Soc., 1912, **28**, 54–67. 1912.1

Wilson, *Henry V.*, & **Mattocks,** *J. E.* The lateral sensory anlage in the salmon. Anat. Anz., 1897, **13**, 658–660. 2 figs. 1897.1

Wilson, *J. Cracroft.* Shipment of whitefish ova to New Zealand in 1878. Rept. U. S. Fish Comm. 1878 (1880), **6**, 880. 1880.1

Wilson, *James* [1795–1856] The natural history of the northern regions of America (In Tytler, P. F. Historical view of the progress of discovery on the more northern coasts of America, etc. Edinburgh, 1832. 444 p. illust. 8°) 1832.1

—— Ichthyology. Article in the 7th edition of the Encyclopædia Britannica, 1838. 1838.1

—— An introduction to the natural history of fishes. Edinburgh, 1838. 130 figs. 4°. 1838.2

—— On the salmon fry. Rept. Brit. Assoc. Adv. Sci., 10. meet., 1840, pt. 2, 133–134. 1840.1

—— Notice of the blind animals which inhabit the Mammoth cave of Kentucky. Ann. Mag. Nat. Hist., 1854, 2. ser. **12**, 71–72. 1854.1

Wilson, *James*, **Murray,** *Hugh*, & others. *See* **Murray, Wilson** & others.

Wilson, *James Meredith*, & **Eycleshymer,** *Albert C.* *See* **Eycleshymer** & **Wilson.**

Wilson, *John L.* The fishes and birds of the Pacific coast. Chicago Field, 1879, **11**, 163. 1879.1

Wilson, *S.* Aufenthalt, Lebensweise und Fortpflanzung des Herings. Zeitschr. Acclim. Berlin, 1861, **4**, 64–78. 1861.1

Wilson, (*Sir*) *Samuel* [1832–1895] The Californian salmon, with an account of its introduction into Victoria. Proc. Zool. Acclim. Soc. Victoria, 1878, **5**, 35–163. 1878.1

This is the first edition of the following work:

—— Salmon at the antipodes . . . an account of the successful introduction of salmon and trout into Australian waters. 2. ed. London, 1879. viii, 252 p. 12°. 1879.1

3. ed. London, 1879. viii, 252 p. map. 8°.

—— Shipment of salmon ova to Australia in 1877. Rept. U. S. Fish Comm. 1878 (1880), **6**, 825–828. 1880.1

Wilson, *Thomas.* The proposed introduction of catfish into Ghent. Bull. U. S. Fish Comm. 1881 (1882), **1**, 340–341. 1882.1

Wilton, *David W.* Zoological log of the S. Y. "Scotia," 1902–1904 (In Report on the scientific results of the voyage of S. Y. "Scotia," etc. Scottish National Antarctic Expedition, 1908, vol. iv, part 1) 1908.1

Wilverth, *E.* Les poissons du Congo. Bull. Soc. Etud. Colon. Bruxelles, 1897, **4**, 337–370. 20 figs. 1897.1

—— Pêche et poissons au Congo belge. Bull. Soc. Etud. Colon. Bruxelles, 1911, **18**, 251–268. 1911.1

Wimmer, *Christian Friedrich Heinrich* [1803–1868] Aristotelis Thierkunde; kritisch-berichtigter Text; mit deutscher Uebersetzung . . . und . . . Erklärung . . . von . . . F. Wimmer, etc. 2 vols. Leipzig, 1868. illust. 8°. 1868.1

Wimmer, *J.* Deutsche Süsswasserfische in geschichtlichen Zeiten. Natur u. Offenbar., Münster, 1903, **49**, 716–741. 1903.1

Wimmer, *J.*

—— Geschichte des deutschen Bodens mit seinem Pflanzen- und Tierleben von der keltisch-römischen Urzeit bis zur Gegenwart. Halle, 1905. 475 p. 8°. 1905.1

Zweiter Teil. Das historische Pflanzen- und Tierleben. Fische, p. 381–417. Contains interesting historical information.

Winchell, *Alexander* [1824–1891] Description of a garpike, supposed to be new — *Lepidosteus* (*Cylindrosteus*) *oculatus.* Proc. Acad. Nat. Sci. Philad., 1864, 183–185. 1864.1

Winckler, *Théodore.* Coup d'œil sur la pisciculture à Huningue. Journ. Agricult. Pratique, 1874, 38. année, **2,** 817. 1874.1

Wind, *Albert.* Interessanter Laichakt bei einem *Lebistes reticulatus*-Weibchen. Wochenschr. Aquar.-Terrar. Kunde, 1915, 12. Jahrg., 32. 1915.1

Windle, *Bertram C. A.* Notes on certain malformations in fishes. Proc. Phil. Soc. Birmingham, 1889, **6,** 318–321. 1889.1

—— On double malformations amongst fishes. Proc. Zool. Soc. London, 1895, 423–429. pl. 1895.1

Windsteig, *Gregor.* Die Abnahme der Fische in der Donau. Oesterr-ungar. Fischerei Zeitg., 1880, 69–70. 1880.1

—— Die Abnahme der Fische in Ungarn. Oesterr.-ungar. Fischerei Zeitg., 1880, 49–51. 1880.2

Windtrath, *P. Pyrrhulina guttata* Stdr.? Wochenschr. Aquar.-Terrar. Kunde, 1916, 13. Jahrg., 4–5. 1916.1

Winge, *Adolf Herluf* [1857 —] Affaldsdynger fra stenalderen i Danmark undersøgte for Nationalmuseet [Kitchenmiddens of the Stone-age in Denmark investigated by the National Museum. VIII. Bones of animals] 1903. 81–89; 102–103; 110–111; 121–122; 129–132; 144–147; 158–163; 171–172; 178–191. 2 pls. 1903.1

Winge, *Adolf Herluf,* **Winge,** *Oluf,* & **Petersen,** *Carl Georg Johannes. See* **Petersen, Winge & Winge.**

Winge, *Otto.* On the value of the rings in the scales of the cod as a means of age determination, illustrated by marking experiments. Medd. Komm. for Havundersøgelser, ser. Fiskeri, København, 1915, **4.** 21 p. pl. 1915.1

Winkler, —— Eine neue Beobachtung über die Pilaten des Hayfisches [*Naucrates ductor*] Mag. Physik Naturgesch., 1802, **4,** 379–384. 1802.1

Winkler, *G.* Fiskenes ansigt en comparativ anatomisk undersøgelse. Vidensk. Medd., Copenhagen, 1876. 1876.1

Winkler, *H. von,* **Schneider,** *Guido,* **Levander,** *K. M.,* & **Husen,** *E. von. See* **Schneider, Levander, Husen & Winkler.**

Winkler, *J.* Zur Heimathskunde des Kantons Luzern. Luzern, 1890. 120 p. 8°. 1890.1

Winkler, *R.* Zur Frage der künstlichen Hechtzucht. Eine Erwiderung. Oesterr. Fischerei Zeitg., 1911, 8. Jahrg., 371–373. 1911.1

Winkler, *Tiberius Cornelius* [— 1898] De haring. Tijdschrift, 1852, 1. *Ibid.,* 1858, 197, 295. *Ibid.,* 1860, 18. *Ibid.,* 1861, 31. *Ibid.,* 1863, 8. — Album Natuur, 1860, 122. 1852.1

—— De karper [*Cyprinus carpio* L.] Album Natuur, 1857, 275–287. 1857.1

—— Een vulkanisch vischje [*Pimelodes cyclopum*] Album Natuur, 1857, 87–94. figs. 1857.2

—— Eenige bijzonderheden over den baars. Album Natuur, 1857, 148–159. 1857.3

—— Iets over den goudvisch. Album Natuur, 1857, 321–333. 1857.4

—— Iets over den pieterman [*Trachinus draco*] Album Natuur, 1857, 24–32. 1857.5

—— Vischfokkerij. Album Natuur, 1857, 280–283. 1857.6

—— De caribito [*Salmo rhombeus*] Album Natuur, 1858, 288–298. fig. 1858.1

—— De vliegende visch van 1857 en de vliegende visch van 1767 [Exocœtus] Album Natuur, 1858, 19–30. 1858.2

—— Een visch, die visch vangt (*Echeneis remora*) Album Natuur, 1859, 215–224. figs. 1859.1

—— De kwab-aal-verwarring. Album Natuur, 1860, 193–208. 4 figs. 1860.1

—— Eenige opmerkungen over het behandelen en uitzetten der Netten. Leyden, 1860. 31 p. 8°. 1860.2

—— Kruipende, loopende, springende en klimmende visschen. Album

Natuur, 1860, 97–127. *Ibid.*, 1862, 222–223. figs. 1860.3

—— Description de quelques nouvelles espèces de poissons fossiles des calcaires d'eau douce d'Oeningen. Verh. Holl. Maatsch. Wet. Haarlem, 1861, **14**. 1861.1

—— Nieuwe fossile visschen. Album Natuur, 1861 (Wetensch. bijblad.), 70–71. 1861.2

—— Over de kabeljaauvangst met den hoek; het maken van leevertraan, vischlijm, etc. Leyden, 1861. 26 p. 8°. 1861.3

—— Over het visschen met den hoek. Leyden, 1861. 26 p. 8°. 1861.4

—— Description de quelques nouvelles espèces de poissons fossiles du calcaire lithographique de Solenhofen. Verh. Holl. Maatsch. Wet. Haarlem, 1862, **16**. 1862.1

—— Nouvelles espèces de poissons fossiles du calcaire lithographique de Solenhofen. Haarlem, 1862. 10 pls. 4°. 1862.2

—— Musée Teyler. Catalogue systématique de la collection paléontologique. Haarlem, 1863–67. iv, 697 p. 8°. 1863.1

—— De maleier en de pieterman. Kennis en Kunst (Winkler), 1868, 75–79. 1868.1

—— Description d'un crinoïde (*Bourgueticrinus dewalquei*) et d'un poisson (*Smerdis heersensis*) du système heersien. Arch. Mus. Teyler, Haarlem, 1869, **2**, 295–307. 1869.1

—— Le *Belonostomus pygmæus* et deux espèces de Caturus. Haarlem, 1871. pl. 8°. 1871.1

—— Sur le *Cœlacanthus harlemensis*. Haarlem, 1871. pl. 8°. 1871.2

—— De meerval [*Silurus glanis*] Het eten en het aanfokken van visch. Jaarb. Zool. Genootsch. Amsterdam, 1871, 179–195. pl. 1871.3

—— Mémoire sur des dents de poissons du terrain bruxellien. Arch. Mus. Teyler, Haarlem, 1874, **3**, 295–304. pl. 1874.1

—— Mémoire sur le *Belonostomus pygmæus* et deux espèces de Caturus: *C. ferox*, *C. elongatus*. Arch. Mus. Teyler, Haarlem 1871 (1874), **3**, 173–182. — Neues Jahrb. Mineral., 1871, 989. 1874.2

—— Mémoire sur le *Cœlacanthus harlemensis*. Arch. Mus. Teyler, Haarlem, 1874, **3**, 101–116. pl. — Geol. Mag. 1872, **9**, 31–32. — Neues Jahrb. Mineral., 1871, 668. 1874.3

—— Note sur une nouvelle espèce de Lepidotus [*L. mohimonti*] Mém. Soc. Sci. Liège, 1874, 2. sér. **4**, no. 3. 4 p. — Journ. Zool. (Gervais), 1876, **5**, 127–128.— Neues Jahrb. Mineral., 1876, 679. 1874.4

—— Beschreibung einiger fossiler Tertiär-Fischreste, vorzugsweise des Sternberger Gesteins. Arch. Ver. Freunde Naturgesch. Mecklenburg, 1875, **29**, 97–129. 1875.1

—— Catalogue systématique de la collection paléontologique. Deuxième supplément. Arch. Mus. Teyler, Haarlem, 1878, **4**, 55–228. 1878.1

Poissons, p. 101–107; 151–158.

—— Deuxième mémoire sur des dents de poissons fossiles du terrain bruxellien. Arch. Mus. Teyler, Haarlem, 1878, **4**, 16–48. pl. & 6 figs. 1878.2

—— Mémoire sur quelques restes de poissons du système heersien. Arch. Mus. Teyler, Haarlem, 1878, **4**, 1–15. pl. 1878.3

—— Description de quelques restes de poissons fossiles des terrains triassiques des environs de Wurzbourg. Arch. Mus. Teyler, Haarlem, 1880, **5**, 109–149. 1880.1

—— Descriptions d'une espèce nouvelle de Pachycormus [*P. westermani*] Arch. Mus. Teyler, Haarlem, 1880, **5**, 1–9. 1880.2

—— Mémoire sur les poissons fossiles des lignites de Sieblos. Arch. Mus. Teyler, Haarlem, 1880, **5**, 85–108. 1880.3

—— Note sur quelques dents de poissons fossiles de l'oligocène inférieur et moyen du Limbourg. Arch. Mus. Teyler, Haarlem, 1880, **5**, 73–84. 1880.4

Winkles, *Gersham H.* On the existence of trimethylamine in the brine of salted herrings. Quart. Journ. Chem. Soc. London, 1855, **7**, 63–67. — Journ. Prak. Chem., **64**, 87–90. — Journ. de Pharm. Sci., **28**, 157–159. — Annal. Chem. Phar., **93**, 321–329. 1855.1

Winslow, *G. M.* The chondrocranium of the Ichthyopsida. Bull. Essex Inst., Salem, 1898, **28**, 87–140. pl. — Studies Biol. Lab. Tufts College, no. 5, 147–200. 4 pls. 1898.1

Winslow, *George,* & **Winslow,** *Samuel H.* *See* **Winslow,** *Samuel H.,* & **Winslow,** *George.*

Winslow, *Samuel H.,* & **Winslow,** *George.* Condition of the shore fisheries of Massachusetts and Rhode Island in 1871. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 45. 1873.1

Winter, *Fritz.* Die Süsswasserfische von Mitteleuropa und ihre Krankheiten. Ber. Senckenberg. Naturf. Ges. Frankfurt-a.-M., 1904, 100–102. 1904.1

Winter, *Fr. W.* Die Drehkrankheit der Regenbogenforelle. Wochenschr. Naturw., 1905, **4**, 4. 1905.1

Winter, *Fr. W.,* & **Hein,** *W.* *See* **Hein** & **Winter.**

Winter, *John Garrett (editor)* The Prodromus of Nicolaus Steno's dissertation concerning a solid body enclosed by process of nature within, a solid. An English version with an introduction and explanatory notes. Univ. of Michigan Studies, Humanistic series, 1916, **11**, 169–283. 9 pls. 1916.1

Contains an English rendering of the Prodromus, together with a bibliography of the same and list of published writings of Steno, also his biography. References to fossil fishes occur, and glossopetræ are rightly interpreted as fossil sharks' teeth.

Winterbotham, *W.* An historical, geographical, commercial and philosophical view of the United States. 4 vols. London, 1795. New York, 1796. 1795.1

Vol. ii, p. 116–118, contains a short article on the cod fishery.

Winterstein, *Hans.* Beiträge zur Kenntnis der Fischatmung. Arch. Ges. Physiol., 1908, **125**, 73–98. 2 figs. 1908.1

Winther, *Georg Peter* [1844–1879] Bidrag til fiskeskjæltændernes morphologi og udviklingshistorie. Naturhist. Tidsskr. Kjöbenhavn, 1872–73, **8**, 527–544. 1872.1

—— Bidrag til kundskab om fiskeriet ved torbaek. Nord. Tidsskr. Fiskeri, 1874, 1. Jahrg., 271–335. 1874.1

—— Om bugfinnernes bygning hos vore pandserkindede og kutlingagtige fiske. Naturhist. Tidsskr. Kjöbenhavn, 1874, **9**, 133–180. 1874.2

—— Om de danske fiske af slægten Gobius. Naturhist. Tidsskr. Kjöbenhavn, 1874, 3. ser. **9**, 191–226. *Ibid.*, 1877, **11**, 41–56. 1874.3

—— Udvendige smagspapiller hos *Gobius niger* Schoner. Naturhist. Tidsskr. Kjöbenhavn, 1874, 3. ser. **9**, 181–190. figs. 1874.4

—— Bidrag til kundskab om fiskeriet i Store Belt. Nord. Tidsskr. Fiskeri, 1875. 2. Jahrg., 193–252; 283–312. *Ibid.*, 1876, 3. Jahrg., 305–353. 1875.1

—— Fiskenes ansigt: en comparativ-anatomisk undersøgelse. Naturhist. Tidsskr. Kjöbenhavn, 1875, 3. ser. **10**, 107–210; 253–268. *Ibid.*, 1877, **11**, 267–478. 1875.2

—— Beretning om et assuranceselskab mettem fiskerne ved store belt. Nord. Tidsskr. Fiskeri, 1876, n. s. 3. Jahrg., 20–37. 1876.1

—— Bidrag til kundskab om fiskeriet i Store Belt. Nord. Tiddskr. Fiskeri, 1876, 3. Jahrg., 305–353. 1876.2

—— Et bidrag til oplysning om sundets silderacer (*Clupea harengus*) Nord. Tidsskr. Fiskeri, 1876, 3. Jahrg., 2–19. 1876.3

—— Sur la face des poissons. Abstract in Journ. Zool. (Gervais), 1877, **6**, 136–139. 1877.1

—— Bidrag til kundskab om fiskeriet i farvandet imellem Jylland, Fyen og Sjællaad. Nord. Tidsskr. Fiskeri, 1878, 4. Jahrg., 289–347. *Ibid.*, 1879, 5. Jahrg., 10–40; 81–119. 1878.1

—— On the races of herring observed in the sound. Extract of a paper in the Nordisk Tidsskr. Fiskeri, Copenhagen, 1876. Ann. Mag. Nat. Hist., 1878, 5. ser. **1**, 295–297. 1878.2

—— Prodromus ichthyologiæ danicæ marinæ. Fortegnelse over de i de danske farvande hidtil fundne fiske. Naturhist. Tidsskr. Kjöbenhavn, 1879–80, **12**, 1–68. 1879.1

—— Fishes (In Schiødte, J. C. Zoologia Danica, 2. ed., vol. ii, p. 1–26. 2 vols. Kjøbenhavn, 1882. 4°) 1882.1

Winthrop, *John.* History of New England, from 1630 to 1649. 2 vols. Boston, 1825. 1825.1

Contains an account of New England fisheries.

Wintrebert, *P.* Sur la première circulation veineuse du cyprin doré (*Carassius auratus* L.) C. R. Acad. Sci. Paris, 1908, **147**, 85–87. 1908.1

—— Le déterminisme de l'éclosion chez le cyprin doré (*Carassius auratus*

L.) C. R. Mém. Soc. Biol. Paris, 1912, **73**, 70–73. 1912.1

—— Le mécanisme de l'éclosion chez la truite arc-en-ciel. C. R. Mém. Soc. Biol. Paris, 1912, **72**, 724–727. 1912.2

Winwood, *Henry Hoyte.* Charles Moore . . . and his work, by H. H. Winwood; with a list of the fossil types and described specimens in the Bath Museum by E. Wilson. Proc. Bath Nat. Hist. Antiq. Field Club, 1892, **7**. 64 p. 1892.1

—— List of British Triassic fossils in the Moore collection, Bath Museum. Rept. Brit. Assoc. Adv. Sci., 75. meet., 1905, 161. 1905.1

Wirth, *Ferdinand.* Ergebnisse in einer Fischzuchtanstalt und Erfahrungen über die Ernährung der Fische. Circul. Deutsch. Fischerei Ver., 1871. no. 7, 48–53. 1871.1

—— Etwas über zwei Fischbrutanstalten und ihre Erfolge. Schweiz. Fischerei Zeitg., 1893, **1**, 269; 287. *Ibid.*, 1894, **2**, 29. Also separate; Pfäffikon-Zürich, 1893–94. 6 p. 8°. 1893.1

Wirth, *J. G.* Der praktische Fischerei Betrieb. 2. ed. Leipzig, 1862. 134 p. 8°. 1862.1

Wirth, *M.* Anleitung zum Betriebe der Fischzucht. Stuttgart, 1863. 163 p. 8°. 1863.1

Wirz, *Ad.*, & **Lang,** *Franz Vincenz. See* **Lang & Wirz.**

Wispauer, *Jos.* Der sommerlaichende Saibling [*Salmo salvelinus*] des Königsees. Oesterr.-ungar. Fischerei Zeitg., 1880, 349–350. 1880.1

—— Ueber Fischcultur. Oesterr.-ungar. Fischerei Zeitg., 1880, 137–138. 1880.2

Wissenbach, —— Schnellwüchsigkeit der Forelle bei Nahrungsfülle. Oesterr.-ungar. Fischerei Zeitg., 1880, 79. 1880.3

Witchell, *Charles A.*, & **Strugnell,** *W. B.* The fauna and flora of Gloucestershire. Stroud, 1892. 310 p. 8°. 1892.1

Withe, *G. F.*, & **Slyke,** *D. D. van. See* **Slyke & Withe.**

Witthalm, *L.* Eigenschaften und Fang der Schleihe [*Tinca vulgaris*] und der Barbe [*Barbus fluviatilis*] Oesterr.-ungar. Fischerei Zeitg., 1880, 157–158; 165. 1880.1

Wittich, *Ernst.* Ueber neue Fische aus dem Mitteloligocänen Meeressand des Mainzer Beckens. Notizbl. Ver. Geol. Erdk. Darmstadt, 1897, 4. ser. **18**, 43–49. pl. *Ibid.*, 1898, **19**, 34–49. pl. 1897.1

—— Beiträge zur Kenntnis der Messeler Braunkohle und ihrer Fauna. Abh. Grossherz. Hess. Geol. Landesanst. Darmstadt, 1898, **3**, 79–147. 2 pls. 1898.1

—— Neue Fische aus den Mitteloligocänen Meeressanden des Mainzer Beckens. Notizbl. Ver. Geol. Erdk. Darmstadt, 1900, **4**. ser. **21**, 19–29. pl. 1900.1

Wittich, *Wilhelm Heinrich von* [1821–1884] Ueber den Metallglanz der Fische. Arch. Anat. Physiol. (Müller), 1854, 265–269. 1854.1

Wittig, *F.* Laichakt und Entwicklung von Panzerwels (*Corydoras marmoratus*) Wochenschr. Aquar.-Terrar. Kunde, 1913, 10. Jahrg., 286–288. 4 figs. 1913.1

—— *Xenomystus nigri.* Wochenschr. Aquar.-Terrar. Kunde, 1913, 10 Jahrg., 409–411. fig. 1913.2

Witting, *E. Nanostomus eques.* Wochenschr. Aquar.-Terrar. Kunde, 1911, 8. Jahrg., 363–365. 2 figs. 1911.1

Wittmack, *Max Carl Ludwig* [1839 —] Beiträge zur Fischerei-Statistik des deutschen Reichs, Oesterreich und der Schweiz. Berlin, 1875. 4°. 1875.1

—— Bericht über die Fischerei auf der Wiener Weltausstellung 1873. Circul. Deutsch. Fischerei Ver. 1874 (1875), no. 2, 43–62. 1875.2

—— Karte über die Verbreitung einiger wichtiger Fische im Deutschen Reich und in Theilen der angrenzenden Länder. Berlin, 1875. 1875.3

—— Ueber die verschiedene Zusammensetzung der Luft in der Schwimmblase der Fische bei verschiedenen Tiefen. Circul. Deutsch. Fischerei Ver. 1875 (1876), no. 7, 387–388. 1876.1

—— Wissenschaftliche Untersuchungen und Literatur [of fisheries] Amt. Ber. Intern. Fischerei Ausstell. Berlin 1880 (1881), **5**. 1881.1

Wittwer, *Wilhelm Constantin* [1822 —] A. von Humboldt. Sein wissenschaftliches Leben und Werken, den Freunden der Naturwissenschaften dar-

Wittwer, *W. C.* gestellt. Leipzig, 1861. xiv, 440 p. illust. 8°. 1861.1

Issued as a supplement to the "Briefe über A. von Humboldt's Kosmos," by B. von Cotta and others.

Wittzack, *J. C. A.* De piscium cerebro et sistemate nervoso. Inaug. Dissert. Berolini, 1817. 8°. 1817.1

Wix, *Henry.* On roach fishing and its peculiarities. London, 1860. 16 p. 1860.1

Wölfelin, *L. G.* An der Adria. Schilderung des Inselgebietes, des Meeres und der Fischfangweisen um Lussin und des Fischmarktes von Lussinpiccolo. Deutsch. Fischerei Zeitg., 1901, **24,** 21–23; 34–36; 45–47. 1901.1

Woge, *Adolf.* Zuchterfolge bei *Fundulus bivittatus* Lönnberg. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 571–572. fig. 1912.1

Woldrich, *J. H.* Ueber die Fische und ihr Leben in den Waldbächen des Centralstockes des Böhmerwaldes. Prag, 1858. 8°. 1858.1

Woldrich, *J. N.* Wirbeltierfauna des Pfahlbaues von Donja Dolina in Bosnien. Wiss. Mitth. Bosnien, Vienna, 1904, **9,** 156–164. 1904.1

Wolf, *A. G.* Statement concerning the menhaden fishery. Rept. U. S. Fish Comm. 1877 (1879), **5,** 450. 1879.1

Wolff, *B.* Ueber ein Blastom bei einem Aal (*Anguilla vulgaris*) Abh. Nat. Ges. Rostock, 1911. 3 p. 8°. 1911.1

Wolff, *H. T.* Goldfish breeds and other aquarium fishes, their care and propagation. Guide to freshwater and marine aquaria, their fauna, flora and management. Philadelphia, 1909. 385 p. 2 pls. 240 figs. 1909.1

Wolff, *Max.* Bemerkungen zur Morphologie und zur Genese des Amphioxus-Rückenmarkes. Biol. Centralbl. 1907, **27,** 186–192; 196–212; 226–232. 6 figs. 1907.1

Wolff, *Wilhelm.* Die Fauna der südbayerischen Oligocänmolasse. Palæontographica, 1897, **43,** 223–320. 9 pls. 1897.1

Wollebæk, *Alf.* On the salmon-fishing of Mörrum and Ätraå, with notes on the observations, hydrographic and meteorologic, taken during the fishing [Text in Swedish] Meddel. Kongl. Landtbr.-Styrel., Stockholm, 1904, no. 6, 26. 1904.1

—— Oversigt over Sveriges Østersjofiskerier [Account of the Swedish fisheries in the Baltic] Norsk Fiskeritidskr., 1905, **24,** 161–163; 197–203; 390–401. fig. 1905.1

—— Omplantning af rodspætter [Verpflanzung von goldbutten] Norsk Fiskeritidskr., 1908, **27,** 254–256. 1908.1

Wollemann, *A.* Die Fauna des mittleren Gaults von Algermissen. Jahrb. Kgl. Preuss. Geol. Landesanst. Bergakad., Berlin, 1904, **24,** 22–42. 2 pls. 1904.1

—— Einige Bemerkungen über die Fauna des Lüneburger Miocäns. Zeitschr. Deutsch. Geol. Ges., 1906, **58,** 19–22. 3 figs. 1906.1

Wollman, *Eugène.* Sur quelques résultats des recherches entreprises par l'association internationale pour l'exploration de la mer du Nord. Rev. Scient., 1908, 5. ser. **10,** 141–145. 1908.1

Wolnitzky, *Baldomero.* The coast fishery of the province of Aconcagua. Chilean Comm. Buffalo Exposition. The fisheries in Chile, 1901, 53–63. 1901.1

Wolski, *T.*, & **Lorec,** *Z.* *See* **Lorec & Wolski.**

Woltereck, *R.* Tierische Wanderungen im Meere. Berlin, 1908. 1908.1

Wolterstorff, *Willy Georg* [1864 —] Das Untercarbon von Magdeburg-Neustadt und seine Fauna. Jahrb. Preuss. Geol. Landesanst. Bergakad., Berlin, 1899, **19,** 1–64. 2 pls. 1899.1

Ueber Listracanthus, p. 18–23.

—— Beiträge zur Fauna der Tucheler Heide. Schrift. Naturf. Ges. Danzig, 1905, **11,** 140–240. pl. & figs. 1905.1

—— Ueber Pœcilia cf. *P. pavonina* (Poey) Zur Nomenklatur. Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 609–610. 1908.1

—— Zur Kenntnis der *Tetrodon cutcutia* Ham. Buch. (Kugelfisch) Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 202–204; 215–217. fig. 1908.2

—— Zur Nomenklatur und Systematik des *Metynnis unimaculatus* Steind. Wochenschr. Aquar.-Terrar. Kunde, 1908, **5.** Jahrg., 411–412. 1908.3

—— Aus dem Tagebuch unseres Kugelfisches (*Tetrodon cutcutia* Ham. Buch.) Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 421–424. 4 figs. 1909.1

—— Bemerkungen über *Girardinus januarius* var.? Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 804. 1909.2

—— Bemerkungen zu A. Tautz; Zucht des Moderlieschens. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 488–489. 1910.1

—— Der Formenkreis der *Pœcilia reticulata* Pet. (*Girardinus reticulatus* Pet.) Eine Mahnung und Bitte. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 626–627; 638. 1910.2

—— Weitere Mitteilungen über den Formenkreis des *Girardinus reticulatus* Pet. Blätt. Aquar.-Terrar. Kunde, 1910, 21. Jahrg., 659. 1910.3

—— Ueber *Haplochilus calliurus* Boulenger. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 563. 1911.1

—— Zur Kenntnis des *Girardinus reticulatus* Pet. (*Pœcilia reticulata* Pet.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 284–286. 1911.2

—— Ueber *Cyprinoden* (*Lebias*) *iberus* Val. und *Fundulus hispanicus* Val. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 49–52. 5 figs. 1912.1

—— Ueber eine gelungene Kreuzung zwischen *Pœcilia mexicana* Männchen und *Mollienisia latipinna* Weibchen. Blätt. Aquar.-Terrar. Kunde, 1912, 23. Jahrg., 486. 1912.2

—— Kreuzung eines Xiphophorus-Bastard ♂ mit *Platypœcilus maculatus* var. *pulchra* ♀. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 608. 1913.1

—— Zur Bestimmung des *Haplochilus senegalensis* Steind. und des *Haplochilus macrostigma* Blgr. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 357–358. fig. 1913.2

—— Zur Xiphophorus-Streitfrage. Blätt. Aquar.-Terrar. Kunde, 1913, 24. Jahrg., 579–580. 1913.3

—— Dr. Martin Kreyenberg [1872–1914] Blätt. Aquar.-Terrar. Kunde, 1915, 26. Jahrg., 65–67. 1915.1

List of writings on fishes, p. 67.

Wolterstorff, *Willy,* & **Krüger,** *B. See* **Krüger** & **Wolterstorff.**

Wolterstorff, *Willy,* & **Reuter,** *F. See* **Reuter** & **Wolterstorff.**

Wolterstorff, *Willy,* & **Schäme,** *Paul.* Ueber *Pyrrhulina australis* Eigenmann u. Kennedy. Wochenschr. Aquar.-Terrar. Kunde, 1907, **4,** 623–624. 1907.1

Wood, ——, & **Payen,** *Anselme. See* **Payen** & **Wood.**

Wood, *H. C.* Ueber die Bewegungen des Schleiendarmes. C. R. Trav. Soc. Helvét. Sci., 81 sess., 1898, 120–121. 1898.1

Wood, *John.* Reise . . . durch die Magellanische Strasse [Voyage to the north-east, 1676] (In Arkstee, ——, & Merkus, —— Allgemeine Historie der Reisen, etc. 1754, 1759. vols. xii & xvii) 1759.1

Wood, *John George* [1827–1899] The common objects of the sea-shore; including hints for an aquarium. London, 1857. iv, 132 p. illust. 8°. 1857.1

—— Illustrated natural history. Zoology complete in 3 vols. London, 1861–63. illust. 8°. 1861.1

Fishes, vol. iii.
1. edition, London, 1851–53.

—— The fresh and saltwater aquarium. London, 1867. illust. 12°. 1867.1

—— Bible animals; being an account of the various birds, beasts, fishes and other animals, mentioned in the Holy Scriptures; with new and original designs by F. W. Keyl, T. W. Wood, and E. H. Smith. London, 1868. 8°. 1868.1

—— Bible animals; being a description of every living creature mentioned in the Scriptures, from ape to the coral; with 24 fullpage engravings and 78 illustrations in the text. London, 1869. 8°. 1869.1

Wood, *M. L.* The fisheries of the gulf of Mexico. Bull. U. S. Fish Comm. 1882 (1883), **2,** 19–20. 1883.1

Wood, *Robert Williams* [1868 —] Fish-eye views, and vision under water. Johns Hopkins Univ. Circ., 1906, 1–4. pl. 1906.1

Wood, *W. M.* Reconnoissance of the shad fisheries of Winyaw bay and its tributaries by the steamer "Fish Hawk." Bull. U. S. Fish Comm. 1884, **4,** 242–243. 1884.1

—— Report of an examination of the shad fisheries in Georgetown, S. C. Bull. U. S. Fish Comm. 1884, **4,** 140–141. 1884.2

Wood, *W. M.*

—— Report of a trip by the steamer "Fish Hawk" to the St. Marys and St. Johns rivers to hatch shad. Bull. U. S. Fish Comm. 1884, **4**, 241–242. 1884.3

—— Report of a trip made by the "Fish Hawk" to the lower part of the Chesapeake bay, to ascertain the character of the fisheries for shad, herring, etc., in the spring of 1884. Bull. U. S. Fish Comm. 1884, **4**, 199–200. 1884.4

—— Report of operations at the navy-yard shad-hatching station in Washington, D. C., during the season of 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 891–897. pl. 1884.5

—— Report of the operations of the United States Fish Commission steamer "Lookout" from March 31, 1881, to November 20, 1882. Rept. U. S. Fish Comm. 1882 (1884), **10**, 35–37. 1884.6

—— Report of operations in hatching eggs of spanish mackerel in Chesapeake bay by steamer "Fish Hawk" during the summer of 1883. Rept. U. S. Fish Comm. 1883 (1885), **11**, 1089–1094. 1885.1

—— Report on the work of the United States Fish Commission steamer "Fish Hawk" for two years ending December 31, 1884. Rept. U. S. Fish Comm. 1884 (1886), **12**, 117–122. 1886.1

Wood, *W. W.* Sawfish [Pristis] inhabiting fresh water [a lake near Manila] Nature, 1876, **13**, 107. 1876.1

Wood, *Walter.* North sea fishers and fighters, with colour and pencil illustrations by Frank H. Mason and photographs by the author. London, 1911. xv, 366 p. 70 pls. 8°. 1911.1

Wood, *William.* New England's prospects. A true lively and experimental description of that part of America, commonly called New England, etc. London, 1634. Reprinted in Publications of the Prince Society, Boston, 1865, and in Rept. U. S. Fish. Comm. 1871–72 (1873), **1**, 161–162. 1873.1

Refers to cod, salmon, and mackerel fisheries of New England, also fishes of the Merrimac and Charles rivers in Massachusetts.

Wood, *William* [1774–1857] Zoography, or beauties of nature displayed in select descriptions from the animal and vegetable, with additions from the mineral kingdom, systematically arranged, illustrated with plates designed and engraved by Will. Daniell. 3 vols. London, 1807–11. 8°. 1807.1

—— A complete illustration of the British freshwater fishes, etc. 3 parts. London, 1842–43 (?) illust. 8°. 1842.1

Wood, *William.* Description of a species of shark [*Leidon echinatum*] Proc. Boston Nat. Hist. Soc., 1845–48, **2**, 174. 1845.1

—— The compressed burbot or eelpout [*Lota compressa*] Amer. Naturalist, 1870, **3**, 17–21. fig. 1870.1

—— Return of salmon planted in Connecticut river. Bull. U. S. Fish Comm. 1881 (1882), **1**, 274. 1882.1

Wood, *William W.* Descriptions of four new species of the Linnæan genus Blennius, and a new Exocetus. Journ. Acad. Nat. Sci. Philad., 1825, n. s. **4**, 278–284. pl. — Bull. Sci. Nat. (Férussac), 1826, **7**, 122–123. 1825.1

Woodbury, *Charles L.* The relation of the fisheries to the discovery and settlement of North America. Boston, 1880. 26 p. 1880.1

Woodcock, *H. M.* Note on a remarkable parasite of plaice and flounders. Rept. Lancashire Sea-Fisheries Lab., 1903, **12**, 63–72. pl. 1903.1

—— On Myxosporidia in flat-fish. Rept. Lancashire Sea-Fisheries Lab., 1903, **12**, 46–62. pl. 1903.2

—— Note on the identification of the parasite [Myxosporidian] Rept. Lancashire Sea-Fisheries Lab., 1906, **15**, 207–208. 1906.1

Woodcock, *H. M.*, & **Johnstone,** *J.* *See* **Johnstone** & **Woodcock.**

Woodcock, *H. M.*, & **Minchin,** *E. A.* *See* **Minchin** & **Woodcock.**

Woodcock, *Samuel.* Destruction of trout spawn by the parents. Zoologist, 1863, **21**, 8463. 1863.1

Woodland, *W. N. F.* On the anatomy of *Centrophorus calceus* (*C. crepidalbus* Bocage & Capello) Günther. Proc. Zool. Soc. London, 1906, 865–886. 6 pls. & 12 figs. 1906.1

—— A suggestion concerning the origin and significance of the "renal-portal system," with an appendix relating to the production of subabdominal veins. Proc. Zool. Soc. London, 1906, pt. 2, 886–901. fig. 1906.2

—— Exhibition of, and remarks upon, preparations of a new gland in certain teleostean fishes. Proc. Zool. Soc. London, 1908, 431–433. 2 figs. 1908.1

—— On some experimental tests of recent views concerning the physiology of gas production in teleostean fishes. Anat. Anz., 1911, **40**, 225–242. 3 figs. 1911.1

—— On the physiology of gas production in connection with the gas bladders of teleostean fish. Rept. Brit. Assoc. Adv. Sci., 81. meet., 1911, 546–548. 1911.2

—— On the structure and function of the gas glands and retia mirabilia associated with the gas bladder of some teleostean fishes, with notes on the teleost pancreas. Proc. Zool. Soc. London, 1911, 183–248. 8 pls. & 10 figs. 1911.3

—— On the systematic position of the Marsipobranchii. Rept. Brit. Assoc. Adv. Sci., 81. meet., 1911, 422–424. 1911.4

—— Notes on the structure and mode of action of the "oval" in the pollack (*Gadus pollachius*) and mullet (*Mugil chelo*) Journ. Mar. Biol. Assoc., 1913, **9**, 561–565. 7 figs. 1913.1

—— On the supposed gnathostome ancestry of the Marsipobranchii, with a brief description of some features of the gross anatomy of the genera Geotria and Mordacia. Anat. Anz., 1913, **45**, 113–153. 37 figs. 1913.2

Wood-Mason, *James*, & **Alcock,** *A.* On the results of deep-sea dredging during the season 1890–1891. Ann. Mag. Nat. Hist., 1891, 6. ser. **8**, 16–34; 119–138. 2 pls. 1891.1

—— On the uterine villiform papillæ of *Pteroplatea micrura*, and their relation to the embryo. Proc. Roy. Soc. London, 1891, **49**, 359–367. 2 pls. 1891.2

—— Further observations on the gestation of Indian rays; being natural history notes from H. M. Indian Marine Survey steamer "Investigator," Commander R. F. Hoskyn, R. N., commanding. Series II. No. 2. Proc. Roy. Soc. London, 1892, **50**, 202–209. 1892.1

Woods, *Frederick Adams*. Origin and migration of the germ cells in *Squalus acanthias*. Amer. Journ. Anat., 1902, **1**, 307–320. 14 figs. — Science, 1902, n. s. **15**, 582–583. 1902.1

Woods, *Henry* [1794 (?)–1840] On the supposed frontal spine of Hybodus in the Bath Museum. Mag. Nat. Hist., 1839, n. s. **3**, 282–283. pl. 1839.1

Woods, *Henry*. Catalogue of the type fossils in the Woodwardian Museum, Cambridge. Cambridge, 1891. 180 p. 8°. 1891.1

Fishes, p. 156–167.

—— Additions to the type fossils in the Woodwardian Museum. Geol. Mag., 1893, 3. ser. **10**, 111–118. 1893.1

Woods, *Julian Edmund Tenison* [1832–1889] Fish and fisheries of New South Wales. Sydney, 1882. xi, 213 p. 45 pls. & figs. 8°. 1882.1

—— On the natural history of New South Wales; an essay. Sydney, 1882. 50 p. 8°. 1882.2

—— Fisheries of the oriental region. Sydney, 1888. 2 pls. 8°. 1888.1

Woodward, *Arthur Smith* [1864 —] For biographical sketch, *see* that by H. Woodward in Geol. Mag., 1915, 6. dec. **2**, 1–5, with portrait. For partial bibliography, *see* List of the scientific writings of Arthur Smith Woodward . . . decade I (1882–92) Hertford, 1893. 7 p. 8°.

—— Chapters on fossil sharks and rays. I–VIII. Sci. Gossip, 1884, **20**, 172–174; 227–230; 267–272. 35 figs. *Ibid.*, 1885, **21**, 106–109; 154–156; 226–229; 270–272. 29 figs. *Ibid.*, 1886, **22**, 4–6. 2 figs. 1884.1

—— On the anatomy and systematic position of the Liassic selachian, *Squaloraja polyspondyla* Agassiz. Proc. Zool. Soc. London, 1886, 527–538. pl. 1886.1

—— On the palæontology of the selachian genus Notidanus. Geol. Mag., 1886, 3. ser. **3**, 205–217; 253–259. pl. & 2 figs. 1886.2

—— On the relations of the mandibular and hyoid arches in a Cretaceous shark (*Hybodus dubrisiensis* Mackie) Proc. Zool. Soc. London, 1886, 218–224. pl. 1886.3

—— Note on the affinities of the so-called "torpedo" (Cyclobatis Egerton) from the Cretaceous of Mount Lebanon. Geol. Mag., 1887, 3. dec. **4**, 508–510. — Rept. Brit. Assoc. Adv. Sci., 57. meet., 1887, p. 716. 1887.1

—— Note on the lateral line of Squaloraja. Proc. Zool. Soc. London, 1887, 481. 1887.2

Woodward, *A. S.*

—— Notes on some post-Liassic species of Acrodus. Geol. Mag., 1887, 3. dec. **4**, no. 3, 101. 1887.3

—— On a new species of Holocentrum from the Miocene of Malta, with a list of fossil Berycidæ hitherto described. Geol. Mag., 1887, 3. dec. **4**, 1–4. 1887.4

—— On a new species of Semionotus, from the lower Oolite of Brora, Sutherlandshire. Ann. Mag. Nat. Hist., 1887, 5. ser. **20**, 175–179. pl. 1887.5

—— On the dentition and affinities of Ptychodus Agassiz. Quart. Journ. Geol. Soc., 1887, **43**, 121–131. 1887.6

—— On the presence of a canal system, evidently sensory, in the shields of pteraspidian fishes. Proc. Zool. Soc. London, 1887, 478–481. fig. 1887.7

—— On the so-called *Microdon nuchalis* Dixon from the Chalk of Sussex, a new species of Platax. Ann. Mag. Nat. Hist., 1887, 5. ser. **20**, 342–344. 1887.8

—— A comparison of the Cretaceous fish-fauna of Mount Lebanon with that of the English Chalk. Abstract of a paper read at the 1888 meeting of the British Association. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 354–355. — Geol. Mag., 3. ser. **5**, 471–472. — Rept. Brit. Assoc. Adv. Sci., 58. meet., 1888, 678. 1888.1

—— Dr. Anton Fritsch on Ctenodus and other Palæozoic fishes. Geol. Mag., 1888, 3. dec. **5**, 523–526. 1888.2

A review of Fauna der Gaskohle, etc., vol. ii, pt. 3, 65–92.

—— Fossil teeth of Myliobatis. Ann. Mag. Nat. Hist., 1888, 6. ser. **1**, 36–47. pl. & fig. 1888.3

—— M. Charles Brongniart on Pleuracanthus. Geol. Mag., 1888, 3. ser. **5**, 422–425. fig. 1888.4

—— [Notice of] J. S. Newberry on the structure and relations of Edestus, with a description of a gigantic new species. Geol. Mag., 1888, 3. ser. **5**, 374. 1888.5

—— Note on the early Mesozoic ganoid, Belonorhynchus, and on the supposed Liassic genus Amblyurus. Ann. Mag. Nat. Hist., 1888, 6. ser. **1**, 354–356. 1888.6

—— Note on the occurrence of a species of Onychodus in the lower Old Red Sandstone passage beds of Ledbury, Herefordshire. Geol. Mag., 1888, 3. ser. **5**, 500–501. 1888.7

—— Notes on some vertebrate fossils from the province of Bahia, Brazil, collected by Joseph Mawson, Esq. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 133–136. 1888.8

—— Notes on the determination of the fossil teeth of Myliobatis, with a revision of the English Eocene species. Ann. Mag. Nat. Hist., 1888, 6. ser. **1**, 36–47. pl. & 2 figs. 1888.9

—— On a head of *Hybodus delabechei*, associated with dorsal fin-spines, from the lower Lias of Lyme Regis, Dorsetshire. Ann. Rept. Yorkshire Phil. Soc., 1888, 58–61. pl. — Amer. Naturalist, **25**, 278. 1888.10

—— On some remains of the extinct selachian Asteracanthus from the Oxford clay of Peterborough, preserved in the collection of Alfred N. Leeds, Esq., of Eyebury. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 336–342. pl. 1888.11

—— On *Squatina cranei* and *Belonostomus cinctus* from the Chalk of Sussex. Quart. Journ. Geol. Soc., 1888, **44**, 144–145. 1888.12

—— On the fossil fish-spines named Cœlorhynchus Agassiz. Ann. Mag. Nat. Hist., 1888, 6. ser. **2**, 223–226. 1888.13

—— On two ganoids from early Mesozoic deposits of Orange Free State, South Africa. Journ. Geol. Soc., London, 1888, **44**, 138–143. 1888.14

—— On two new lepidotoid ganoids from the early Mesozoic deposits of Orange Free State, South Africa. Proc. Geol. Soc. London, 1888, 38–39. 1888.15

—— Palæontological contributions to selachian morphology. Proc. Zool. Soc. London, 1888, 126–129. fig. 1888.16

—— A synopsis of the vertebrate fossils of the English Chalk. Proc. Geol. Assoc., London, 1888, **10**, 273–338. pl. 1888.17

Fishes, p. 285–338.

—— Acanthodian fishes from the Devonian of Canada. Ann. Mag. Nat. Hist., 1889, 6. ser. **4**, 183–184. 1889.1

—— Catalogue of the fossil fishes in the British Museum Natural History. 4 vols. London, 1889–1901. 79 pls. & 137 figs. 8°. 1889.2

i. Containing the Elasmobranchii. xlvii, 474 p. 17 pls. 1889.

ii. Containing the Elasmobranchii (Acanthodii), Holocephalii, Ichthyodorulite, Ostracodermi, Dipnoi and Teleostomi (Crossopterygii and chondrostean Actinopterygii) xliv, 567 p. 16 pls. & 58 figs. 1891.

iii. Containing the actinopterygian Teleostomi of the orders Chondrostei (concluded), Protospondyli, Ætheospondyli and Isospondyli (in part) xl, 534 p. 18 pls. 1895.

iv. Containing the actinopterygian Teleostomi of the suborders Isospondyli (in part), Ostariophysi, Apodes, Percesoces, Hemibranchii, Acanthopterygii and Anacanthini. xxxviii, 636 p. 19 pls. 1901.

—— Note on a tooth of Ceratodus from the Stormberg beds of the Orange Free State, South Africa. Ann. Mag. Nat. Hist., 1889, 6. ser. **4**, 243. 1889.3

—— Note on *Bucklandium diluvii* König, a siluroid fish from the London Clay of Sheppey. Proc. Zool. Soc. London, 1889, 208–210. pl. 1889.4

—— Note on *Rhinobatus bugesiacus*, a selachian fish from Lithographic Stone [of Bavaria] Geol. Mag., 1889, 3. dec. **6**, no. 303, 393–396. 1889.5

—— Notes on some new and little-known British Jurassic fishes. Ann. Mag. Nat. Hist., 1889, 6. ser. **4**, 405–407. 1889.6

—— On Atherstonia, a new genus of palæoniscid fishes from the Karoo formation of South Africa; and a tooth of Ceratodus from the Stormberg beds of the Orange Free State. Ann. Mag. Nat. Hist., 1889, 6. ser. **4**, 239–243. pl. 1889.7

—— On some remains of fossil fishes from the Rhætic beds of Spinney hills, Leicestershire. Leic. Liter. Phil. Soc., 1889, 5–8. 1889.8

—— On the Myriacanthidæ, an extinct family of chimæroid fishes. Ann. Mag. Nat. Hist., 1889, 6. ser. **4**, 275–280. 1889.9

—— On the palæontology of sturgeons. Proc. Geol. Assoc., London, 1889, **11**, 24–44. pls. & 13 figs. 1889.10

—— Palæichthyological notes. Ann. Mag. Nat. Hist., 1889, 6. ser. **3**, 297–302. pl. 1889.11

i. On the so-called *Hybodus keuperinus* Murch. & Strickl.

ii. On *Diplodus moorei*, sp. nov., from the Keuper of Somersetshire.

iii. On a symmetrical hybodont tooth from the Oxford Clay of Peterborough.

iv. On a maxilla of Saurichthys from the Rhætic of Aust cliff, near Bristol.

—— Palæontology in the Malton Museum. Geol. Mag., 1889, 3. dec. **6**, 361–365. 1889.12

—— Preliminary notes on some new and little-known British Jurassic fishes. Geol. Mag., 1889, 3. dec. **6**, 448–455. Abstract in Rept. Brit. Assoc. Adv. Sci., 59. meet., 1889, 585–586. 1889.13

—— Prof. von Zittel on palæichthyology. Geol. Mag., 1889, 3. dec. **6**, 125–130; 177–181; 227–232. 1889.14

Review of Karl A. von Zittel's Handbuch der Palæontologie, Palæozoologie. Band III. Lief. I, II.

—— Triassic fish-scales from Siberia. Ann. Mag. Nat. Hist., 1889, 6. ser. **4**, 107. 1889.15

—— Evidence of a fossil tunny from the Coralline crag. Ann. Mag. Nat. Hist., 1890, 6. ser. **5**, 294–296. 1890.1

—— The fossil fishes of the Hawkesbury series at Gosford. Mem. Geol. Surv. New South Wales, Palæont., 1890, no. 4, 1–55. 10 pls. Reviews in Amer. Naturalist, **25**, 652–653. — Ann. Mag. Nat. Hist., 6. ser. **6**, 423. 1890.2

—— The fossil sturgeon of the Whitby Lias. Naturalist, 1890, 101–108. 1890.3

—— A new theory of Pterichthys. Ann. Mag. Nat. Hist., 1890, 6. ser. **6**, 314–316. 1890.4

—— Notes on some ganoid fishes from the English lower Lias. Ann. Mag. Nat. Hist., 1890, 6. ser. **5**, 430–436. pl. 1890.5

—— On a head of Eurycormus. Note on *Leedsia problematica*. Geol. Mag., 1890, 3. dec. **7**, no. 313, 289–292. 1890.6

—— On a new species of pycnodont fish (*Mesodon damoni*) from the Portland Oolite. Geol. Mag., 1890, 3. dec. **7**, no. 310, 1–2. 1890.7

—— On some British Jurassic fish-remains referable to the genera Eurycormus and Hypsocormus. Ann. Mag. Nat. Hist., 1890, 6. ser. **5**, 341. 1890.8

—— On some new fishes from the English Wealden and Purbeck beds, referable to the genera Oligopleurus, Strobilodus and Mesodon. Proc. Zool. Soc. London, 1890, 346–353. 2 pls. 1890.9

—— On the tooth of a Carboniferous dipnoan fish, *Ctenodus interruptus*. Ann. Rept. Yorkshire Phil. Soc., 1890, 37–38. 1890.10

—— On two groups of teeth of the Cretaceous selachian fish Ptychodus.

Woodward, *A. S.*
Ann. Rept. Yorkshire Phil. Soc., 1890, 38–41. 1890.11

—— Remarks on the evolution of the Aspidorhynchidæ. Proc. Zool. Soc. London, 1890, 629–637. 2 pls. 1890.12

—— [Remarks upon an extinct sawfish, *Sclerorhynchus atavus*, and exhibition of a fragment of its rostrum] Proc. Zool. Soc. London 1889 (1890), 449–451. fig. 1890.13

—— [Review of] The Palæozoic fishes of North America, by J. S. Newberry. Nature, 1890, **43**, 146. 1890.14

—— A synopsis of the fossil fishes of the English lower Oolites. Proc. Geol. Assoc., London, 1890, **11**, 285–306. pl. & 9 figs. Notice in Amer. Naturalist, 1891, **25**, 278. 1890.15

—— Vertebrate palæontology in some American and Canadian museums. Geol. Mag., 1890, 3. ser. **7**, 390–395; 455–460. 1890.16

—— Armored Palæozoic sharks. Geol. Mag., 1891, 3. ser. **8**, 422–425. 1891.1

A review of three of Dr. Otto Jaekel's papers on elasmobranchs.

—— The Devonian fish-fauna of Spitzbergen. Ann. Mag. Nat. Hist., 1891, 6. ser. **8**, 1–15. 3 pls. 1891.2

—— Hybodont and cestraciont sharks of the Cretaceous period. Proc. Yorksh. Geol. Soc., 1891, **12**, pt. 1, 62–68. 1891.3

—— Note on some dermal plates of Homosteus from the Old Red Sandstone of Caithness. Proc. Zool. Soc. London, 1891, 198–201. 1891.4

See also Idem., 1916.1, *infra.*

—— Notes on some fish-remains from the lower Tertiary and upper Cretaceous of Belgium, collected by Monsieur A. Houzeau de Lehaie. Geol. Mag., 1891, 3. dec. **8**, 104–114. pl. 1891.5

—— On the palæontology of sturgeons. Proc. Geol. Assoc., London, 1891, **11**, 24–44. pl. & 13 figs. 1891.6

—— *Pholidophorus germanicus;* an addition to the fish-fauna of the upper Lias of Whitby. Geol. Mag., 1891, 3. dec. **8**, 545–546. 1891.7

—— Remarks on the lower Tertiary fish-fauna of Sardinia. Rept. Brit. Assoc. Adv. Sci., 61. meet., 1891, 634–635. 1891.8

—— [Review of] The pineal fontanelle of placoderms and catfish, by Bashford Dean. Geol. Mag., 1891, 3. ser. **8**, 513. 1891.9

Discussion of Bashford Dean's article in 19 Rept. Comm. Fish. N. Y., 1891.

—— Description of the Cretaceous sawfish, *Sclerorhynchus atavus.* Geol. Mag., 1892, 3. ser. **9**, 529–534. pl. & fig. 1892.1

—— Doubly-armoured herrings. Ann. Mag. Nat. Hist., 1892, 6. ser. **10**, 412–413. 1892.2

—— The evolution of fins. Natural Sci., 1892, **1**, 28–35. 8 figs. 1892.3

—— The evolution of sharks' teeth. Natural Sci., 1892, **1**, 671–675. 12 figs. 1892.4

—— The forerunners of the backboned animals. Natural Sci., 1892, **1**, 596–602. 10 figs. 1892.5

—— Further contributions to the Devonian fish-fauna of Canada. Geol. Mag., 1892, 3. ser. **9**, 481–485. pl. & figs. 1892.6

—— On some teeth of new chimæroid fishes from the Oxford and Kimmeridge clays of England. Ann. Mag. Nat. Hist., 1892, 6. ser. **10**, 13–16. pl. 1892.7

—— On the lower Devonian fish-fauna of Campbellton, New Brunswick. Geol. Mag., 1892, 3. ser. **9**, 1–6. pl. 1892.8

—— On the skeleton of a chimæroid fish (Ischyodus) from the Oxford Clay of Christian Malford, Wiltshire. Ann. Mag. Nat. Hist., 1892, 6. ser. **9**, 94–96. 1892.9

—— Palæozoic fishes. Geol. Mag., 1892, 3. ser. **9**, 233–235. 1892.10

Review of Prof. E. D. Cope's article, "On the characters of some Palæozoic fishes," and of J. V. Rohon's paper, "Ueber Pterichthys."

—— Supplementary observations on some fossil fishes of the English lower Oolites. Proc. Geol. Assoc., London, 1892, **12**, 238–241. pl. 1892.11

—— Description of the skull of *Pisodus oweni*, an Albula-like fish of the Eocene period. Ann. Mag. Nat. Hist., 1893, 6. ser. **11**, 357–359. pl. 1893.1

—— The fossil fishes of the British Coal Measures. Geol. Mag., 1893, 3. ser. **10**, 72–74. 1893.2

Review of James W. Davis' paper on Pleuracanthidæ in Trans. Roy. Dublin Soc., 1892, **4**, 703–748.

—— Further notes on fossil fishes from the Karoo formation of South Africa. Ann. Mag. Nat. Hist., 1893, 6. ser. **12**, 393–398. pl. 1893.3

—— Note on a case of subdivision of the median fin in a dipnoan fish. Ann. Mag. Nat. Hist., 1893, 6. ser. **11**, 241–242. fig. 1893.4

—— Note on the evolution of the scales of fishes. Natural Sci., 1893, **3**, 448–450. fig. 1893.5

—— On some British upper Jurassic fish-remains of the genera Caturus, Gyrodus and Notidanus. Ann. Mag. Nat. Hist., 1893, 6. ser. **12**, 398–402. pl. 1893.6

—— On the cranial osteology of the Mesozoic ganoid fishes Lepidotus and Dapedius. Proc. Zool. Soc. London, 1893, 559–565. 3 pls. & 7 figs. — Geol. Mag., 1903, 3. dec. **10**, 413–414. 1893.7

—— On the dentition of a gigantic extinct species of Myliobatis from the Lower Tertiary formation of Egypt. Proc. Zool. Soc. London, 1893, 558–559. pl. 1893.8

—— Palæichthyological notes. Ann. Mag. Nat. Hist., 1893, 6. ser. **12**, 281–287. pl. 1893.9

i. On some ichthyolites from the Keuper of Warwickshire.
ii. On *Nemacanthus monilifer* from the Rhætic formation.
iii. On *Gyrolepis dubius*, sp. nov., from the Rhætic formation of Scania.
iv. On a new palæoniscid fish from Siberia.

—— Some Cretaceous pycnodont fishes. Geol. Mag., 1893, 3. ser. **10**, 433–436; 487–493. 2 pls. 1893.10

—— Some extinct sharks and ganoid fishes. Natural Sci., 1893, **2**, 435–438. 3 figs. 1893.11

Review of Dr. Anton Fritsch's " Fauna der Gaskohle und der Kalksteine der Perm-Formation Böhmens."

—— A description of the so-called salmonoid fishes of the English Chalk. Proc. Zool. Soc. London, 1894, 655–664. 2 pls. Notice in Geol. Mag., 4. dec. **2**, 28–29. 1894.1

—— Note on a supposed tooth of Galeocerdo, from the English Chalk. Ann. Mag. Nat. Hist., 1894, 6. ser. **15**, 4–5. pl. & 3 figs. 1894.2

—— Note on a tooth of Oxyrhina from the Red Crag of Suffolk. Geol. Mag., 1894, 3. ser. **11**, 75–76. 2 figs. 1894.3

—— Notes on the sharks' teeth from British Cretaceous formations. Proc. Geol. Assoc., London, 1894, **13**, 190–200. 2 pls. & figs. 1894.4

—— On a second British species of the Jurassic fish Eurycormus. Geol. Mag., 1894, 4. dec. **1**, 214–216. 1894.5

—— On some fish-remains of the genera Portheus and Cladocyclus, from the Rolling Downs formation (Lower Cretaceous) of Queensland. Ann. Mag. Nat. Hist., 1894, 6. ser. **14**, 444–447. pl. 1894.6

—— On the affinities of the Cretaceous fish Protosphyræna. Ann. Mag. Nat. Hist., 1894, 6. ser. **13**, 510–512. 1894.7

—— A contribution to the knowledge of the fossil fish-fauna of the English Purbeck beds. Geol. Mag., 1895, 4. dec. **2**, 145–152. pl. 1895.1

—— A description of *Ceramurus macrocephalus*, a small fossil fish from the Purbeck beds of Wiltshire. Geol. Mag., 1895, 4. dec. **2**, 401–402. 1895.2

—— The fossil fishes of the Talbragar beds (Jurassic?) Mem. Geol. Surv. New South Wales, 1895, no. 9. 27 p. 6 pls. 1895.3

With a note on their stratigraphical relations by T. W. E. David and E. F. Pittman.

—— On the Devonian ichthyodorulite, Byssacanthus. Ann. Mag. Nat. Hist., 1895, 6. ser. **15**, 142–144. 1895.4

—— On the fossil fishes of the upper Lias of Whitby. Parts I–IV. Proc. Yorkshire Geol. Soc., 1895, 2. ser. **13**, 25–42. 3 pls. *Ibid.*, 155–170. 3 pls. *Ibid.*, 1898, **14**, 325–337. 3 pls. *Ibid.*, 1899, **15**, 445–472. 2 pls. & 13 figs. 1895.5

—— On the Liassic fish *Osteorachis macrocephalus*. Geol. Mag., 1895, 4. dec. **2**, 204–206. pl. & fig. 1895.6

—— On two deep-bodied species of the clupeoid genus Diplomystus. Ann. Mag. Nat. Hist., 1895, 6. ser. **15**, 1–3. pl. & 4 figs. 1895.7

Describes and figures *Diplomystus longicostatus* and describes *D. birdi*, n. sp.

—— The problem of the primæval sharks. Natural Sci., 1895, **6**, 38–43. 3 figs. 1895.8

—— A synopsis of the remains of ganoid fishes from the Cambridge Greensand. Geol. Mag., 1895, 4. ser. **2**, 207–214. pl. 1895.9

Woodward, *A. S.*

—— The fishes of the deep sea. Rec. Haslemere Micr. Nat. Hist. Soc., 1896, 51–54. 1896.1

—— Note on the affinities of the English Wealden fish-fauna. Geol. Mag., 1896, 4. dec. **3**, 69–71. 1896.2

—— Notes on the collection of fossil fishes from the Upper Lias of Ilminster in the Bath Museum. Proc. Bath. Nat. Hist. Club, 1896, **8**, 233–242. 2 figs. 1896.3

—— On some extinct fishes of the teleostean family Gonorhynchidæ. Proc. Zool. Soc. London, 1896, 500–504. pl. Abstract in Zool. Anz., **19**, no. 499, 151. 1896.4

—— On some remains of the pycnodont fish, Mesturus, discovered by Alfred N. Leeds, Esq., in the Oxford Clay of Peterborough. Ann. Mag. Nat. Hist., 1896, 6. ser. **17**, 1–15. 3 pls. 1896.5

—— [Review of] Fishes, living and fossil, by Bashford Dean. Geol. Mag., 1896, 3. ser. **3**, 135–139. 1896.6

See also Gill, T. N., 1896.18, *supra*.

—— An account of a visit to South America, made in order to examine the fossil vertebrates of that country. Proc. Zool. Soc. London, 1897, 311–313. 1897.1

—— A contribution to the osteology of the Mesozoic amioid fishes Caturus and Osteorachis. Ann. Mag. Nat. Hist., 1897, 6. ser. **19**, 292–297; 379–386. 2 pls. 1897.2

—— Observations on Señor Ameghino's "Notes on the geology and palæontology of Argentina." Geol. Mag., 1897, 4. dec. **4**, 20–23. 1897.3

—— On a new specimen of the Mesozoic ganoid fish, Pholidophorus, from the Oxford Clay of Weymouth. Proc. Dorset Nat. Hist. Field Club, 1897, **18**, 150–152. pl. 1897.4

—— On Echidnocephalus, a halosauroid fish from the Upper Cretaceous formation of Westphalia. Proc. Zool. Soc. London, 1897, 268–271. pl. 1897.5

—— The antiquity of the deep-sea fish-fauna. Natural Sci., 1898, **12**, 257–260. pl. 1898.1

—— The imperfection of the geological record. Natural Sci., 1898, **13**, no. 81, 327–332. 1898.2

—— Note on a Devonian cœlacanth fish. Geol. Mag., 1898, 4. dec. **5**, 529–531. fig. 1898.3

—— Notes on some type specimens of Cretaceous fishes from Mount Lebanon in the Edinburgh Museum of Science and Art. Ann. Mag. Nat. Hist., 1898, 7. ser. **2**, 405–414. 1898.4

—— Notes on some type specimens of Cretaceous fishes from Mount Lebanon in the Geneva Museum. Ann. Mag. Nat. Hist., 1898, 7. ser. **2**, 485–489. 1898.5

—— On a supposed tropical American fish (Pœcilia) from the Upper Miocene of Oeningen, Baden. Geol. Mag., 1898, 4. dec. **5**, 392–394. 1898.6

—— Outlines of vertebrate palæontology for students of zoology. Cambridge, 1898. 470 p. 228 figs. 8° (Cambridge Natural Science Manuals, Biological Series) 1898.7

Reviews in Nature, **58**, 337–339. — Natural Sci., 1899, **14**, 156–159.

—— Preliminary note on a new specimen of Squatina from the lithographic stone of Nusplingen, Württemberg. Geol. Mag., 1898, 4. dec. **5**, 289–291. pl. 1898.8

—— Additional notes on some type specimens of Cretaceous fishes from Mount Lebanon in the Edinburgh Museum of Science and Art. Ann. Mag. Nat. Hist., 1899, 7. ser. **4**, 317–321. 1899.1

—— Considerações sobre alguno peixes terciarios dos schistos de Taubaté, Estado de S. Paulo, Brazil. Revist. Mus. Paulista, 1899, **3**, 63–70. 2 pls. 1899.2

—— Note on Scapanorhynchus, a Cretaceous shark apparently surviving in Japanese seas. Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 487–489. 1899.3

—— Note on some Cretaceous clupeoid fishes with pectinated scales (Ctenothrissa and Pseudoberyx) Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 489–492. 1899.4

—— Note sur l'Helicoprion et les Edestidés. Bull. Soc. Belge Géol., 1899, **13**, 230–233. 1899.5

—— On some new specimens of *Pteraspis cornubica* from the Devonian of Lantivet bay. Trans. Roy. Geol. Soc. Cornwall, 1899, **12**, 229–232. 1899.6

—— On the Cretaceous fish Plethodus. Ann. Mag. Nat. Hist., 1899, 7. ser. **3**, 353–361. 3 pls. 1899.7

—— Doctor Traquair on Silurian fishes. Geol. Mag., 1900, 4. ser. **7**, 66–72. 1900.1

—— Evidence of an extinct eel (*Urenchelys anglicus*, sp. n.) from the English Chalk. Ann. Mag. Nat. Hist., 1900, 7. ser. **5**, 321–323. pl. & fig. 1900.2

—— Helicoprion, spine or tooth? Geol. Mag., 1900, 4. dec. **7**, 33–36. 1900.3

—— Notes on fossil fish-remains collected in Spitzbergen by the Swedish Arctic Expedition, 1898. Handl. Svensk. Vet. Akad., 1900, 4. ser. **25**, no. 5. 7 p. pl. 1900.4

—— Notes on the teeth of sharks and skates from English Eocene formations. Proc. Geol. Assoc., London, 1900, **16**, 1–14. pl. 1900.5

—— On a new ostracoderm (*Euphanerops longævus*) from the Upper Devonian of Scaumenac bay, Province of Quebec, Canada. Ann. Mag. Nat. Hist., 1900, 7. ser. **5**, 416–420. pl. 1900.6

—— On a new species of Deltodus from the Lower Carboniferous (Yoredale rocks) of Yorkshire. Ann. Mag. Nat. Hist., 1900, 7. ser. **5**, 419–420. pl. & fig. 1900.7

—— On a new specimen of the clupeoid fish *Aulolepis typus* from the English Chalk. Ann. Mag. Nat. Hist., 1900, 7. ser. **5**, 324–326. pl. & fig. 1900.8

—— On some fish-remains from the Paraná formation, Argentine Republic. Ann. Mag. Nat. Hist., 1900, 7. ser. **6**, 1–7. pl. 1900.9

—— Notes on some Upper Devonian fish-remains discovered by Prof. A. G. Nathorst in east Greenland. Handl. Svensk. Vet. Akad., 1901, 4. ser. **26**, no. 10. 10 p. pl. 1901.1

—— On a cornu of *Cephalaspis carteri* from the Lower Devonian of Looe. Trans. Geol. Soc. Cornwall, 1901, **12**, 431–433. 1901.2

—— The fossil fishes of the English Chalk. Parts i–vii. Monogr. Palæontogr. Soc., London, 1902–12. 1902.1

Pt. i, Monogr. Palæontogr. Soc., 1902, **56**, 1–56. 13 pls. & figs.
Pt. ii, *Ibid.*, **57**, vol. for 1903, p. 57–96. 7 pls. & figs.
Pt. iii, *Ibid.*, **61**, vol. for 1907, p. 97–128. 6 pls. & figs.
Pt. iv, *Ibid.*, **62**, vol. for 1908, p. 129–152. 7 pls. & figs.
Pt. v, *Ibid.*, **63**, vol. for 1909, p. 153–184. 6 pls. & figs.
Pt. vi, *Ibid.*, **64**, vol. for 1910, p. 185–224. 8 pls. & figs.
Pt. vii, *Ibid.*, **65**, vol. for 1911, p. 225–264. 8 pls. & figs.

—— On an amioid fish (*Megalurus mawsoni*, sp. n.) from the Cretaceous of Bahia, Brazil. Ann. Mag. Nat. Hist., 1902, 7. ser. **9**, 87–89. pl. 1902.2

—— On *Atherstonia australis* and *Ctenolates avus*, two new species of fossil fishes from New South Wales. Rec. Geol. Surv., New South Wales, 1902, **7**, pt. 2, 89–91. pl. 1902.3

—— Preliminary note on a Carboniferous fish-fauna from Victoria, Australia. Geol. Mag., 1902, 4. dec. **9**, 471–473. 1902.4

—— Note on a fossil eel from the Scandinavian Chalk. Ann. Mag. Nat. Hist., 1903, 7. ser. **12**, 254–255. 1903.1

—— On a Carboniferous acanthodian fish, Gyracanthides. Rept. Brit. Assoc. Adv. Sci., 73. meet., 1903, 662–663. — Geol. Mag., 1903, 4. dec. **10**, 512–513. 1903.2

—— On a new species of Acrolepis obtained by Mr. Molyneux from the Sengwe coalfield. Quart. Journ. Geol. Soc., 1903, **59**, 285–286. pl. 1903.3

—— On the Carboniferous ichthyodorulite Listracanthus. Geol. Mag., 1903, 4. dec. **10**, 486–488. 9 figs. 1903.4

—— Preliminary note on a Carboniferous fish-fauna from Victoria, Australia. Rept. Brit. Assoc. Adv. Sci., 73. meet., 1903, 615–616. 1903.5

—— *Diplomystus marmorensis*, sp. nov. Quart. Journ. Geol. Soc., 1904, **60**, 284–285. 1904.1

—— Investigation of the fauna and flora of the Trias of the British Isles. III. List of British Triassic fossils in the British Museum. Rept. Brit. Assoc. Adv. Sci., 74. meet., 1904, 285–288. 1904.2

—— Notes on the geology and fossils of the Ludlow district. Proc. Geol. Assoc., London, 1904, **18**, 429–442. 9 figs. 1904.3

—— On the jaws of Ptychodus from the Chalk. Quart. Journ. Geol. Soc., 1904, **60**, 133–135. pl. & fig. 1904.4

Woodward, *A. S.*

—— Some recent discoveries concerning the teeth of extinct animals. Trans. Odontol. Soc., 1904, **36**, 185–198. figs. 1904.5

—— A guide to the fossil reptiles, amphibians and fishes in the department of geology and palæontology in the British Museum. 8. ed. London, 1905. 110 p. illust. 8°. 1905.1

For a similar guide to the collection of recent fishes, *see* Ridewood, W. G., 1908.

—— Fishes and labyrinthodonts (In Seward, A. C., & Woodward, A. S. Permo-carboniferous plants and vertebrates from Kashmir) Palæont. Indica, 1905, n. s. **2**, Mem. no. 2, 10–13. 2 pls. 1905.2

—— On a Carboniferous fish-fauna from the Mansfield district, Victoria. Mem. Nat. Mus., Melbourne, 1906, **1**, 1–32. 11 pls. 1906.1

—— On a new chimæroid fin-spine from the Portland stone. Proc. Dorset. Nat. Hist. Field Club, 1906, **27**, 181–182. pl. 1906.2

—— On a new specimen of the chimæroid fish *Myriacanthus paradoxus* from the Lower Lias near Lyme Regis (Dorset) Quart. Journ. Proc. Geol. Soc., 1906, **62**, 1–4. pl. 1906.3

—— On a pycnodont fish of the genus Mesodon [*M. barnesi*, n. sp.] from the Portland stone. Proc. Dorset Nat. Hist. Field Club, 1906, **27**, 183–187. pl. 1906.4

—— On a tooth of Ceratodus and a dinosaurian claw from the Lower Jurassic of Victoria, Australia. Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 1–3. pl. 1906.5

—— On *Myriolepis hibernica*, a palæoniscid fish from the Irish Coal Measures. Ann. Mag. Nat. Hist., 1906, 7. ser. **18**, 416–419. pl. 1906.6

—— The relations of palæontology to biology. Ann. Mag. Nat. Hist., 1906, **18**, 312–318. 1906.7

—— The study of fossil fishes. Presidential address. Proc. Geol. Assoc., London, 1906, **19**, 266–282. 15 figs. Abstract in Nature, **74**, 597–599. 1906.8

—— Description of the British fossil teeth of Ceratodus (Postscript to Miall, L. C., in Monogr. Palæontogr. Soc., 1907, **61**, 32–34) 1907.1

—— Notes on some Upper Cretaceous fish-remains from the provinces of Sergipe and Pernambuco, Brazil. Geol. Mag., 1907, 5. dec. **4**, 193–197. pl. 1907.2

—— On a new leptolepid fish from the Weald clay of Southwater, Sussex. Ann. Mag. Nat. Hist., 1907, 7. ser. **20**, 93–95. pl. 1907.3

—— Upper Cretaceous fish-remains from Brazil. Geol. Mag., 1907, 5. dec. **4**, 193–197. pl. 1907.4

—— The fossil fishes of the Hawkesbury series at St. Peter's. Mem. Geol. Surv. New South Wales, 1908, no. 10, 1–29. 4 pls. 1908.1

—— On some fish-remains from the Lameta beds at Dongargaon, Central provinces. Palæont. Indica, 1908, n. s. **3**, Mem. no. 3. 6 p. pl. 1908.2

Two new species are described of Eoserranus and Pycnodus.

—— On some fossil fishes discovered by Prof. Ennes de Souza in the Cretaceous formation at Ilhéos (state of Bahia) Brazil. Quart. Journ. Geol. Soc., 1908, **64**, 358–362. 2 pls. 1908.3

New species are described of Mawsonia, Lepidotus and Scrombroclupea.

—— On fossil fish-remains from Snow Hill and Seymour islands (In Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition 1901–1903 unter Leitung von Dr. Otto Nordenskjöld, vol. iii, pt. 4. 4 p. pl. & 5 figs. Stockholm, 1909) 1909.1

—— Presidential address to the geological section. Rept. Brit. Assoc. Adv. Sci., 79. meet., 1909. 10 p. — Science, 1909, n. s. **30**, 321–331. 1909.2

Fishes, p. 3; 6.

—— Note on palæoniscid fish-scales from the Ecca shales, near Ladysmith (Teleostei) Ann. Natal Gov. Mus., London, 1910, **2**, 229–231. pl. 1910.1

—— On a fossil sole and a fossil eel from the Eocene of Egypt. Geol. Mag., 1910, 5. dec. **7**, 402–405. pl. 1910.2

—— On *Dipteronotus cyphus* Egerton; a ganoid fish from the Lower Keuper of Bromsgrove, Worcestershire. Proc. Geol. Assoc., London, 1910, **21**, pt. 5, 322–323. 1910.3

—— On some Permo-Carboniferous fishes from Madagascar. Ann. Mag. Nat. Hist., 1910, 8. ser. **5**, 1–6. pl. & 5 figs. 1910.4

Ecrinesomus, n. g., and Cœlacanthus.

—— A fossil fish from the Upper Lias of Dumbleton, Glos. Proc. Nat. Sci. Soc., Cheltenham, 1911, n. s. **1**, 322–323. 1911.1

—— Note on a fossil fish from Ekoi creek (South Nigeria) Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 207–208. 1911.2

—— On the upper Devonian ostracoderm, *Psammosteus taylori.* Ann. Mag. Nat. Hist., 1911, 8. ser. **8**, 649–652. pl. 1911.3

—— Description of the teeth of two new species of fishes from the Lower Carboniferous rocks of the north-western province. Quart. Journ. Geol. Soc., 1912, **68**, 572–573. pl. 1912.1

—— Notes on some fish-remains from the Lower Trias of Spitzbergen. Bull. Geol. Inst. Univ. Upsala, 1912, **11**, 291–297. pl. 1912.2

—— On the snout of a pachycormid fish (*Protosphyræna stebbingi*) from the Lower Chalk of South Ferriby, Lincolnshire. Naturalist, London, 1912, 329–330. pl. 1912.3

—— On a new specimen of the Cretaceous fish *Portheus molossus* Cope. Geol. Mag., 1913, 5. dec. **10**, 529–531. pl. 1913.1

—— Preliminary report on the fossil fishes from Dura Den. Rept. Brit. Assoc. Adv. Sci., 84. meet., 1915, 122–123. pl. 1915.1

—— The use of fossil fishes in stratigraphical geology [Presidential address] Quart. Journ. Geol. Soc., 1915, **71**, lxii–lxxv. 2 figs. 1915.2

Ostracodermi, Elasmobranchii, Holocephali, Dipnoi, Crossopterygii and Actinopterygii are considered with respect to their order of geological succession.

—— The fossil fishes of the English Wealden and Purbeck formations. Part I. Monogr. Palæontogr. Soc., 1916, **69**, 1–48. 10 pls. 1916.1

—— A new species of Edestus from the Upper Carboniferous of Yorkshire; with a geological appendix by J. Pringle. Abstract in Nature, 1916, **98**, 162–163. 1916.2

The specimen confirms earlier interpretations of Edestus remains as belonging to Orodus-like sharks.

—— On a fossil arthrodiran fish, *Homosteus milleri*, from the Caithness flagstones, found in a Torquay pavement. Journ. Torquay Nat. Hist. Soc., 1916, **2**, 65–69. pl. & figs. 1916.3

Introductory note by Harford J. Lowe.

—— On a new specimen of the Liassic pachycormid fish *Saurostomus esocinus* Agassiz. Geol. Mag., 1916, 6. dec. **3**, 49–51. pl. 1916.4

Woodward, *Arthur Smith,* & **Etheridge** (*junior*), *Robert. See* **Etheridge & Woodward.**

Woodward, *Arthur Smith,* & **Mawson,** *Joseph. See* **Mawson & Woodward.**

Woodward, *Arthur Smith,* & **Seward,** *A. C. See* **Seward & Woodward.**

Woodward, *Arthur Smith,* & **Sherborn,** *Charles Davies.* A catalogue of British fossil vertebrata. London, 1890. xxxv, 396 p. 1890.1

Pisces, p. 1–198.

—— A catalogue of British fossil vertebrata, supplement for 1890 [Pisces] Geol. Mag., 1891, 3. dec. **8**, 25–31. 1891.1

Woodward, *Bernard Barham* [1853—] The young collector's handbook of fossils. London, 1885. 32 p. illust. 12°. 1885.1

The completed work was not published separately but appeared as part of the volume "Seaweeds, shells and fossils" by P. Gray and B. B. Woodward, 1886.

[——] Guide to an exhibition of old natural history books, illustrating the origin and progress of the study of natural history up to the time of Linnæus. London, 1905. 27 p. 8°. 1905.1

British Museum (Natural History) Special guides, no. 1.

Woodward, *B. B.,* & **Gray,** *P. See* **Gray & Woodward.**

Woodward, *B. B.,* & **Sherborn,** *Charles Davies.* On the dates of the "Encyclopédie Méthodique." Additional note. Proc. Zool. Soc. London, 1899, 595. 1899.1

—— Dates of publication of the zoological and botanical portions of some French voyages. II. Ferret and Galinier's "Voyage en Abyssinie"; Lefebvre's "Voyage en Abyssinie"; Exploration scientifique de l'Algérie; Castelnau's "Amérique du Sud"; Dumont d'Urville's "Voyage de l'Astrolabe"; Laplace's "Voyage sur la Favorite"; Jacquemont's "Voyage dans l'Inde"; Tréhouart's "Commission scientifique d'Islande"; Cailliaud's "Voyage à Méroé"; Expédition scientifique de Morée; Fabvre's "Commission scientifique du Nord"; Du Petit Thouars' "Voyage de la

Woodward & **Sherborn.** Vénus"; and on the dates of the "Faune française." Ann. Mag. Nat. Hist., 1901, 7. ser. **8**, 161–164; 333–336; 491–494. 1901.1

—— Notes on the dates of publication of the natural history portions of some French voyages. Part I. "Amérique méridionale"; "Indes orientales"; Pôle Sud ("Astrolabe" and "Zelée") "La Bonite"; "La Coquille" and "L'Uranie et Physicienne." Ann. Mag. Nat. Hist., 1901, 7. ser. **7**, 388–391. 1901.2

—— Notes on the dates of the natural history portions of some French voyages. Voyage autour du monde . . . sur . . . "La Coquille" . . . 1822–25 . . . par L. J. Duperry, etc. A correction. Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 335–336. 1906.1

—— On the dates of publication of the natural history portions of the "Encyclopédie Méthodique." Ann. Mag. Nat. Hist., 1906, 7. ser. **17**, 577–582. 1906.2

Woodward, *Henry* [1832 —] Discovery of poison organs in fishes. Intellectual Observ., 1864, **5**, 253–257. 1864.1

—— Fish-remains in the Lower Devonian of South Devon and Cornwall. Geol. Mag., 1868, **5**, 247–248. 1868.1

—— Note on a tooth of *Ctenodus tuberculatus* [= *C. cristatus*] in the British Museum. Geol. Mag., 1869, **6**, 317. fig. 1869.1

—— On some armoured fishes. Pop. Sci. Rev., 1878, **17**, 1–23. 1878.1

—— Guide to the collection of fossil fishes in the department of geology and palæontology. British Museum (natural history) Cromwell road, South Kensington. London, 1885. 47 p. 58 figs. 1885.1

2. ed., 1888. 51 p. 81 figs.

—— On a remarkable ichthyodorulite from the Carboniferous series, Gascoyne, western Australia. Geol. Mag., 1886, 3. ser. **3**, 1–7. pl. & 5 figs. 1886.1

Describes *Edestus davisii.*

—— The President's address: the evolution of vertebrate animals in time. Journ. Roy. Micr. Soc., 1904, 137–164. 1904.1

—— Malformed plaice. Proc. Zool. Soc. London, 1908, 161–164. 2 figs. 1908.1

Woodward, *H. B.*, & **Usher,** *W. A. E.* The geology of the country near Sidmouth and Lyme Regis. Mem. Geol. Surv. United Kingdom, London, 1906, 1–90. 1906.1

Woodward, *J. J.* Examination of fungus growth upon the head of *Hydrargyra fasciata.* Proc. Acad. Nat. Sci. Philad. 1858 (1859) (*Biol. Dept.*), 12–13. 1859.1

Woodward, *S. P.* Catalogue of fossils found in the British Isles, forming the private collection of J. Tennant. London, 1858. ii, 76 p. 12°. 1858.1

Syllabus, etc. Mr. Tennant's bibliographic list, by T. Rupert Jones. 23 p.

Woodward, *Samuel* [1790–1838] A synoptical table of British organic remains, etc. London & Norwich, 1830. xi, 50 p. illust. 8°. 1830.1

Woodworth, *Jay Backus*, & **Shaler,** *Nathaniel Southgate. See* **Shaler** & **Woodworth.**

Woolman, *Albert J.* New fishes from Chihuahua, Mexico. Amer. Naturalist, 1892, **26**, 259–261. 1892.1

—— Report of an examination of the rivers of Kentucky, with lists of the fishes obtained. Bull. U. S. Fish Comm. 1890 (1892), **10**, 249–288. pl. 1892.2

—— Report upon the rivers of central Florida tributary to the gulf of Mexico, with lists of fishes inhabiting them. Bull. U. S. Fish Comm. 1890 (1892), **10**, 293–302. 2 pls. 1892.3

—— Report on a collection of fishes from the rivers of central and northern Mexico. Bull. U. S. Fish Comm. 1894 (1895), **14**, 55–66. pl. 1895.1

—— Report upon ichthyological investigations in western Minnesota and eastern North Dakota. Rept. U. S. Fish Comm. 1893 (1895), **19**, 343–373. 1895.2

Workman, *I. S.* The ophthalmic and eye muscle nerves of the cat-fish. Journ. Compar. Neurol., 1900, **10**, 403–410. fig. 1900.1

Workman, *W. H.* Loch Broom sea monster. Zoologist, 1906, **10**, 355. 1906.1

Worral, *James.* Letter on the introduction of the California salmon. Proc. Acad. Nat. Sci. Philad., 1873, 258–259. 1873.1

—— The fishways of Pennsylvania. Trans. Amer. Fisheries Soc. 1874 (1875), 38–44. 1875.1

—— On the Pennsylvania fishways. Trans. Amer. Fisheries Soc. 1875 (1876), 40–41. 1876.1

Worth, *R. H.* On the fauna and bottom-deposits near the thirty-fathom line from the Eddystone grounds to Start point [1899] Journ. Mar. Biol. Assoc., 1897–99, **5**, 381–387. 1897.1

Worth, *S. G.* The artificial propagation of the striped bass (*Roccus lineatus*) in Albemarle sound. Bull. U. S. Fish Comm. 1881 (1882), **1**, 174–177. 1882.1

—— A poor season for shad hatching in North Carolina; letter to Col. M. McDonald. Bull. U. S. Fish Comm. 1882 (1883), **2**, 54. 1883.1

—— Shad hatching and carp culture. Bull. U. S. Fish Comm. 1882 (1883), **2**, 26–27. 1883.2

—— The selection of sites and the construction of carp ponds. Bull. U. S. Fish Comm. 1884, **4**, 33–37. 1884.1

—— The propagation of the striped bass. Trans. Amer. Fisheries Soc. 1884 (1885), 202–212. 1885.1

—— Prospectus of striped bass operations for the season of 1885. Bull. U. S. Fish Comm. 1885, **5**, 35–36. 1885.2

—— Summary of fish-cultural work in North Carolina. Bull. U. S. Fish Comm. 1885, **5**, 365–367. 1885.3

—— The striped bass or rock-fish industry of Roanoke island, North Carolina, and vicinity. Bull. U. S. Fish Comm. 1887 (1889), **7**, 365–367. 1889.1

—— Observations on the hatching of the yellow perch. Bull. U. S. Fish Comm. 1890 (1892), **10**, 331–334. pl. 1892.1

—— Observations on the spawning habits of the shad. Bull. U. S. Fish Comm. 1891 (1893), **11**, 201–206. 1893.1

—— The recent hatching of striped bass and possibilities with other commercial species. Trans. Amer. Fisheries Soc. 1904 (1905), 223–228. 1905.1

—— Possible expansion of shad-hatchery work. Proc. 4. Internat. Fish. Congr. Washington. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 2, 789–793. 1910.1

—— Progress in hatching striped bass. Trans. Amer. Fisheries Soc. 1909 (1910), 155–159. 1910.2

—— Fresh-water angling grounds for the striped bass. Trans. Amer. Fisheries Soc. 1911 (1912), 115–126. 1912.1

Worthen, *Amos Henry* [1813–1888] For biographical notice, *see* White, Charles A. Memoir of Amos Henry Worthen 1813–1888. Nat. Acad. Sci., Biographical Memoirs, 1895, **3**, 339–362.
With bibliography.

—— On the occurrence of fish-remains in the Carboniferous limestone of Illinois. Proc. Amer. Assoc. Adv. Sci., 10. meet., 1856, 189–191. 1856.1
Abstract in Neues Jahrb. Mineral., 1857, 342.

Worthen, *Amos Henry,* & **Newberry,** *John Strong. See* **Newberry & Worthen.**

Worthen, *Amos Henry* & **St. John,** *Orestes H. See* **St. John & Worthen.**

Worthington, *John.* Falling off in the fisheries of Malta. Bull. U. S. Fish Comm. 1885, **5**, 400. 1885.1

—— The fisheries of Malta. Bull. U. S. Fish Comm. 1885, **5**, 457–462. 1885.2

Worthington, *Julia.* Contribution to our knowledge of the Myxinoids. Amer. Naturalist, 1905, **39**, 625–663. 5 figs. 1905.1

—— The descriptive anatomy of the brain and cranial nerves of *Bdellostoma dombeyi.* Quart. Journ. Micr. Sci., 1905, **49**, 137–181. 4 pls. 1905.2

Worthington, *Julia,* & **Ayers,** *Howard. See* **Ayers & Worthington.**

Wortman, *Jacob L.* Ichthyological papers by George Powers Dunbar, with a sketch of his life. Amer. Naturalist, 1882, **16**, 381–388. 1882.1
Contains some manuscript notes by Dunbar on Lepidosteus and Megalops.

—— The comparative anatomy of the teeth of the Vertebrata (In The American system of dentistry, edited by W. F. Litch, vol. i, p. 351–504. Philadelphia, 1886) Also separate; Philadelphia, 1886. 153 p. 6 pls. & 82 figs. 1886.1
Teeth in fishes, p. 364–379.

Woskobojnikoff, *M. See* **Voskoboĭnikov,** *M.*

Wozelka, *K.* Neues Fischzucht-Verfahren. Wien, 1893. 2 pls. 8°. 1893.1

Wozelka-Iglau, *Karl.* Contributions toward the improvement of the

Wozelka-Iglau, *K.* culture of salmonoids and crawfish in smaller water-courses. Bull. U. S. Fish Comm. 1887 (1891), **15**, 369–378. pl. 1891.1

Wraxall, *(Sir) Frederick Charles Lascelles* [1828–1865] Life in the sea; or the nature and habits of marine animals. London, 1860. viii, 312 p. illust. 8°. 1860.1

Wray, *Leonard.* A desire for fish-culture in Malacca. Bull. U. S. Fish Comm. 1885, **5**, 457–462. 1885.1

Wrede *(junior) Th.* Der Makropode, seine Pflege und Zucht. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 575–577. fig. 1909.1

—— Der Stichling und seine Zucht im Zimmeraquarium. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 309–312. fig. 1909.2

—— Die Zucht des dreistachligen Stichlings (*Gasterosteus aculeatus*) im Zimmer-Aquarium. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 736–740. fig. 1909.3

Wright, *Abel A.* A Georgia carp pond. Bull. U. S. Fish Comm. 1881 (1882), **1**, 68–69. 1882.1

Wright, *Albert A.* On the ventral armor of Dinichthys. Rept. Geol. Surv. Ohio, 1893, **7**, 620–626. pl. & 2 figs. — Amer. Geologist, 1894, **14**, 318–320. pl. & 2 figs. 1893.1

—— New evidence upon the structure of Dinichthys. Abstract in 5. Ann. Rept. Ohio State Acad. Sci., 1897, 59–60. 1897.1

—— Laboratory directions for the study of Amphioxus. Lab. Bull. Oberlin Coll., 1902, **14**, no. 11. 25 p. 1902.1

Wright, *Albert Hazen.* A graphic method of correlating fish environment and distribution. Amer. Naturalist, 1907, **41**, 351–354. 1907.1

Wright, *Albert Hazen,* & **Reed,** *Hugh D.* *See* **Reed** & **Wright.**

Wright, *C. E.,* & **Leach,** *E. F.* *See* **Leach** & **Wright.**

Wright, *Edward Perceval* [1834–1910] On a disease attacking the minnow (*Leuciscus phoxinus*) Nat. Hist. Review, 1856, **3**, 70–71. 1856.1

—— Notes on deep-sea dredging. Ann. Mag. Nat. Hist., 1868, 4. ser. **2**, 423–427. 1868.1

—— Notes on the transportation of living fish from south of the equator to Europe. Ann. Mag. Nat. Hist., 1868, 4. ser. **2**, 438–441. 1868.2

—— The basking shark [*Selache maxima*] Nature, 1876, **14**, 313–314. *Ibid.*, 1877, **15**, 292; *Ibid.*, **16**, 61–62. 1876.1

—— Die Entwicklung des Knochenhechts und der Schollen. Abstract in Kosmos, 1878–79, **4**, 312–315. 1878.1

—— About fishes' heads. Nature, 1879, **19**, 149–151. 1879.1

—— On the development of the garpike [*Lepidosteus osseus*] Nature, 1879, **19**, 100–101. 1879.2

Wright, *Harrison.* On the early shad fisheries of the north branch of the Susquehanna river. Rept. U. S. Fish Comm. 1881 (1884), **9**, 619–642. 1884.1

Wright, *Joseph* [1834 —] On the teeth of the ballan wrasse (*Labrus maculatus*) Trans. Nat. Hist. Northumberland Durham, 1870, **3**, pt. 2, 373–375. pl. 1870.1

—— On the occurrence of the eagle ray (*Myliobatis aquila* Cuv.) off Cullercoats. Trans. Nat. Hist. Northumberland Durham, 1877, **5**, pt. 3, 338–339. 1877.1

Wright, *Robert Ramsay* [1852 —] Contributions to American helminthology. I. Proc. Canad. Inst., 1879, n. s. **1**, no. 1. 23 p. 2 pls. 1879.1

Records *Clinostomum gracile* in cysts from perch, *Octobothrium sagittatum* from sucker, *Ascaris adumca* from shad, *Ancyracanthus cystidicola* from swim bladder of cisco and *A. serratus* from heart of whitefish.

—— Notes on American parasitic Copepoda. I. Proc. Canad. Inst., 1882, n. s. **1**, 243–254. 2 pls. 1882.1

Reports *Ergasilus centrarchidarum* from the gills of perch, sunfish, bream, and particularly the rock bass. Also *Lernæopoda edwardsii* from gills of the brook trout and *Achtheres micropteri* from mouth and gill arches of the small-mouthed black bass.

—— On the skin and cutaneous sense organs of Amiurus. Proc. Canad. Inst., 1884, n. s. **2**, 251–269. 1884.1

—— The relationship between the air bladder and auditory organ in Amiurus. Zool. Anz., 1884, **7**, 248–252. 1884.2

—— On the function of the serrated appendages of the throat in Amia. Science, 1885, **4**, 511. 1885.1

—— On the hyomandibular clefts and pseudobranchs of Lepidosteus and

Amia. Journ. Anat. Physiol., 1885, **19**, 477–497. pl. 1885.2

—— On the nervous system and sense organs of Amiurus. Proc. Canad. Inst. 1884 (1885), n. s. **2**, 352–386. 1885.3

—— Some preliminary notes on the anatomy of fishes. Amer. Naturalist, 1885, **19**, 187–190; 513. 1885.4

i. On the cutaneous sense-organs.
ii. On the fate of the spiracular cleft in Amia and Lepidosteus.
iii. On the auditory organ of Hypophthalmus.

—— On the skull and auditory organ of the siluroid Hypophthalmus. Proc. Trans. Roy. Soc. Canada, 1886, **3**, 107–118. 3 pls. 1886.1

—— Argulus and mortality of fishes. Amer. Naturalist, 1887, **21**, 188. 1887.1

Refers to Washburn (1886) and records fatal epidemic in whitefish of Lake of the Woods due to an undetermined species of Argulus, not the same as those from Europe where similar epidemics are not uncommon.

—— The plankton of eastern Nova Scotia waters. An account of floating organisms upon which young food-fishes mainly subsist. Ann. Rept. Dept. Mar. Fish. Canada, Ottawa, 1907, **39**, 1–20. 1907.1

Wright, *R. Ramsay,* **McMurrich,** *James Playfair,* **Macallum,** *A. B.,* & **Mackenzie,** *T.* The anatomy of Amiurus. Toronto, 1884. 8 pls. 8°. 1884.1

Wright, *Thomas (editor)* Alexander Neckham. De naturis rerum libri duo, etc. London, 1863. 8°. 1863.1

Contains descriptions by Alexander Neckham [1157–1217] of several kinds of fishes.

Wright, *Thomas Strethill.* On the pigmental system of the æquoreal pipefish (*Fistularia tabacaria*) Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 438–439. 1863.1

Wright, *W.* Fishes and fishing, artificial breeding of fish, etc., with illustrative facts. London, 1858. xi, 384 p. 2 pls. 12°. 1858.1

Wright, *Wilhelm von (engraver)* [1810 —] Skandinaviens fiskar, målade efter lefvande exemplar och ritade på sten, med text af B. Fr. Fries, C. U. Ekström och C. Sundevall. Stockholm, 1836–57. 46 p. 34 pls. 4°. *See* Fries, Ekström & others.

—— A history of Scandinavian fishes . . . with colored plates by W. von Wright . . . 2. edition . . . part 1. Stockholm & London, 1893. vi, 1240 p. illust. 4°. 1893.1

Wright, *William.* The Hunterian lectures on the morphology and variation of the skull. Lancet, 1909, **176**, 669–676. 1909.1

Wüllerstorf-Urbair, *Bernhard von* [1816–1883] Reise der oesterreichischen Fregatte "Novara" um die Erde, in . . . 1857–1859, unter den Befehln des Commodore B. von Wüllerstorf-Urbair. 3 vols. Wien, 1861–62. 8°. 1861.1

—— The same. 2. ed. Wien, 1864–66. 1864.1

Wünsch, *E. A.* On a visit to the marine fishpond at port Logan, Wigtonshire. Proc. Nat. Hist. Soc. Glasgow 1869–75 (1876), **2**, pt. 2, 247–250. 1876.1

Würtenberger, *Theodor.* Der Ueberlinger Eisenbahntunnel und seine Bedeutung für die Bodenseegeologie. Mitth. Thurgau Naturhist. Ges., 1900, **14**, 99–118. 4 figs. 1900.1

—— Der Ueberlinger Sandstein, bisher für "Untere Süsswassermolasse" gehalten, ist eine Meeresbildung. Ber. Oberrhein. Geol. Ver., 1900, **33**, 35–37. 2 figs. 1900.2

Contains notice of fossil sharks' teeth.

Wuitner, *E.* Pêches et captures zoologiques dans les parages de l'île de Tatihou (Manche) Ann. Assoc. Natural. Levallois-Perret, 1912, 18. année, 81–85. 1912.1

—— Pêches et captures zoologiques dans les parages de l'île de Tatihou (Manche) II. Ann. Assoc. Natural. Levallois-Perret, 1913, 19. année, 82–86. 1913.1

Wulf, *Biner.* Ueber die Dimensionen des Bogengangssystems bei den Wirbelthieren. Arch. Anat. Physiol. (*Anat. Abth.*), 1901, 57–74. 12 figs. 1901.1

Wulff, *D. H.* Bidrag til Limfjords fiskeriets historie. Nord. Tidsskr. Fiskeri, 1878, n. s. 4. Jahrg., 16–48. 1878.1

Wulff, *Johann Christoph* [— 1767] Ichthyologia, cum amphibiis regni Borussici methodo Linnæana disposita. Regiomonti, 1765. xii, 60 p. 8°. 1765.1

Wulfsberg, *Christian A.* Oversigt over Finmarkens fiskerier (In Om Finmarken, p. 136–152. Christiania, 1867. 8°) 1867.1

Wulfsberg, *C. A.*

—— Norges naturlige Velstandskilder. Christiania, 1872. 8°. 1872.1

On fisheries, p. 153–181.

Wulpillier, *P.* St. Gallisches Fischereiwesen vom Mittelalter bis Ende des 18. Jahrhunderts. Schweiz. Fischerei Zeitg., 1896, **4**, 343. Also separate; Pfäffikon-Zürich, 1896. 24 p. 8°. 1896.1

Wunderer, *Hans.* Ueber Terminalkörperchen der Anamnien. Arch. Mikr. Anat., 1908, **71**, 504–569. pl. 1908.1

Wundsch, *H. H.* Pisces für 1911. Arch. Naturgesch., 1912, **78** *B*, Heft 4, 1–225. 1912.1

For similar reviews of the literature *see* Strand, E., 1905.1 and 1907.1. *Also* Wandolleck, B., 1907.1, *supra*.

—— Ein viersömmriger Karpfen mit fast vollständigem Mundverschluss. Zeitschr. Fischerei, Berlin, 1913, **14**, 128–135. pl. 1913.1

Wuth, *E. M.* On fish-poison. Austral. Med. Journ., 1877, **22**, 273–276. 1877.1

Wyatt-Edgell, *E.* Fish-remains in the lower Devonian of south Devon and Cornwall. Geol. Mag., 1868, **5**, 247. 1868.1

Remarks by Henry Woodward, p. 247–248.

Wyckoff, *William C.* The net result. The work of the United States Fish Commission. Harper's New Monthly Mag., 1874, **49**, 213–229. 1874.1

—— Man and the menhaden. Chicago Field, 1879, **12**, 307. 1879.1

Wyhe, *J. W. van.* *See* **Wijhe,** *J. W. van.*

Wyllie, *John.* On the peculiar structure of the branchial appendages in one of the Indian Siluridæ. Proc. Zool. Soc. London, 1840, **8**, 34. 1840.1

Wyman, *Jeffries* [1814–1874] For biography, *see* Packard, A. S. Memoir of J. Wyman [with list of his scientific papers and works] Boston, 1878. 8°.

—— Description of a blind fish [*Amblyopsis spelæus*] from a cave in Kentucky. Amer. Journ. Sci., 1843, **45**, 94–96. — Ann. Mag. Nat. Hist., **12**, 298–299. 1843.1

—— On the microscopic structure of the teeth of the Lepidostei, and their analogies with those of the labyrinthodonts. Proc. Boston Nat. Hist. Soc. 1841–44 (1844), **1**, 131–132. — Amer. Journ. Sci., **45**, 359–363. — Neues Jahrb. Mineral., 1844, 640. 1844.1

—— Remark on nests of a fish in the Magalloway river. Proc. Boston Soc. Nat. Hist. 1841–44 (1844), **1**, 196. 1844.2

—— Remarks on articulations of spines from head of *Lophius americanus* and on fœtus and brain of *Acanthias americanus*. Proc. Boston Soc. Nat. Hist. 1844–48 (1848), **2**, 234–235. 1848.1

—— [Account of dissections of the blind fishes [*Amblyopsis spelæus*] from the Mammoth cave, Kentucky] Proc. Boston Soc. Nat. Hist. 1848–51 (1851), **3**, 349; 357. 1851.1

—— On two malformed cods' skulls. Proc. Boston Soc. Nat. Hist. 1848–51 (1851), **3**, 178–179. 1851.2

—— [Remarks on teeth of fossil fishes from Richmond, Va.] Proc. Boston Soc. Nat. Hist. 1848–51 (1851), **3**, 246–247. 1851.3

Contains a figure and description of the Eocene labroid dental plate afterwards named Hipparionyx by Eastman in Maryland Geol. Surv., Eocene, 1901, p. 112–113.

—— The brain and spinal cord of the *Lophius americanus* Cuvier, commonly known as the goose-fish. Proc. Boston Soc. Nat. Hist. 1851–54 (1854), **4**, 149–151. 1854.1

—— The eyes and organs of hearing in *Amblyopsis spelæus*. Proc. Boston Soc. Nat. Hist. 1851–54 (1854), **5**, 18–19. 1854.2

—— On the anatomy of *Carcharias obscurus*. Proc. Boston Soc. Nat. Hist. 1851–54 (1854), **4**, 123–124. 1854.3

—— On the brain and spinal cord of the lump-fish. Proc. Boston Soc. Nat. Hist. 1851–54 (1854), **4**, 82–83. 1854.4

—— On the eye and the organ of hearing in the blind fishes (*Amblyopsis spelæus* Dekay) of the Mammoth cave. Proc. Boston Soc. Nat. Hist. 1851–54 (1854), **4**, 395–396. *Ibid.*, 1854–56 (1856), **5**, 18–19. — Amer. Journ. Sci., 2. ser. **17**, 258–261. — Arch. Anat. Physiol. (Müller), 1853, 574–576. 1854.5

—— On the development of *Anableps gronovii*. Proc. Boston Nat. Hist. Soc.

1854–56 (1856), **5**, 8–81. — Boston Journ. Nat. Hist., **6**, 432–443. 1856.1

—— On the development of the dorsal chord in the alewife. Proc. Boston Soc. Nat. Hist. 1854–56 (1856), **5**, 394–395. 1856.2

—— On the electrical organs of the *Torpedo occidentalis.* Proc. Boston Soc. Nat. Hist. 1854–56 (1856), **5**, 21–22. 1856.3

—— On the fœtus of Zygæna (hammer-head shark) Proc. Boston Soc. Nat. Hist. 1854–56 (1856), **5**, 157. 1856.4

—— Some account of the habits of the alewife in depositing eggs, as observed in Fresh pond, in Cambridge. Proc. Boston Soc. Nat. Hist. 1854–56 (1856), **5**, 355. 1856.5

—— Account of some observations on the development of *Anableps gronovii,* as compared with that of the Embiotoci of California. Proc. Boston Soc. Nat. Hist. 1856–59 (1859), **6**, 294. 1859.1

—— The formation of the peculiarly shaped egg-case of skates. Proc. Boston Soc. Nat. Hist. 1856–59 (1859), **6**, 376. 1859.2

—— Mode of development of the egg-case of the skate in the ovary. Proc. Boston Soc. Nat. Hist. 1856–59 (1859), **6**, 376–377. 1859.3

—— On some unusual modes of gestation in batrachians and fishes. Amer. Journ. Sci., 1859, 2. ser. **27**, 5–13. — Canadian Naturalist, **5**, 42–49. — Zoologist, **18**, 7173–7179. 1859.4

—— [On the electric organs of *Raia lævis*] Proc. Boston Soc. Nat. Hist. 1856–59 (1859), **6**, 44. 1859.5

—— Some species of fishes from the Surinam river and some conditions heretofore unnoticed, under which the eggs are developed. Proc. Boston Soc. Nat. Hist. 1856–59 (1859), **6**, 268–269. 1859.6

—— Observations on the development of *Raia batis.* Ann. Mag. Nat. Hist., 1864, 3. ser. **14**, 399–400. 1864.1

—— On the development of skates, and especially of *Raia batis.* Mem. Amer. Acad. Sci., 1864, **9**, 31–44. pl. Abstract in Amer. Journ. Sci., 1864, 2. ser. **38**, 129–130. 1864.2

—— [An account of the results of observations on the development of skates, and especially of *Raia batis*] Proc. Boston Soc. Nat. Hist. 1862–63 (1865), **9**, 334–335. 1865.1

—— On symmetry and homology in limbs. Proc. Boston Nat. Hist. Soc. 1866–68 (1868), **11**, 246–278. 14 figs. 1868.1

Wyss, *Oscar.* Ueber eine Fischseuche durch *Bakterium vulgare* (Proteus) Zeitschr. Hygiene & Infectionskrankheit, 1898, **27**, 143–174. 1898.1

X

Xantus, *János* [1825–1894] Prodromus piscium Asiæ orientalis a . . . J. Xantus . . . 1868–1870 collectorum, etc. *See* **Károli,** *Janos.*

Xivrey, *Jules Berger de. See* **Berger de Xivrey,** *J.*

Y

Yabe, *Hisakatsu.* Notes on some shark's teeth from the Mesozoic formation of Japan. Journ. Geol. Soc. Tokyo, 1902, **9**, no. 110, 1–6. 5 figs. 1902.1

—— On a Fusulina-limestone with Helicoprion in Japan. Journ. Geol. Soc. Tokyo, 1903, **10**, no. 113. 13 p. 2 pls. 1903.1

Yakovlev, *Vasiliĭ Evghrafovich* [1839 —] List of teleostean fish found at the mouth of the Volga [Text in Russian]. Trudui Obshchestvo Estestvoispuitatelei, Kazan, 1871, **1**, part 2. 1871.1

Yarrell, *William* [1784–1856] For biography and portrait, *see* that prefixed to the third edition of his British fishes, London, 1859.

—— On the supposed identity of whitebait and shad. Zool. Journ., 1829, **4**, 137–144. — Phil. Mag., **6**, 253–261. — Bull. Sci. Nat. (Férussac), **18**, 291. — Isis (Oken), **12**, 1248. 1829.1

—— Remarks on some English fishes, with notices of three species, new to the British fauna (*Solea pegusa, Cottus bubalis* and the grig (?) Penn.) Zool. Journ., 1829, **4**, 465–471. — Isis (Oken), **12**, 1365. 1829.2

—— Additions to the British fauna; class fishes. Mag. Nat. Hist., 1830, **3**, 521–523. fig. 1830.1

Recognition of three species of Gasterosteus new to the British isles: *G. trachurus, semiauratus* and *leiurus* C. & V.

—— Characters of a new species of herring (Clupea Linn.) Proc. Zool. Soc. London, 1831, **1**, 34. 1831.1

—— On the anatomy of the conger eel (*Conger vulgaris* Cuv.) and on the differences between the conger and freshwater eels. Proc. Zool. Soc. London, 1831, **1**, 158–159. 1831.2

—— On the generation of eels and lampreys. Proc. Zool. Soc. London, 1831, **1**, 132–134. 1831.3

—— Notice of a new species of herring [*Clupea leachii*] Zool. Journ., 1832–34, **5**, 277–279. 1832.1

—— On two species of entozoa found in the eel. Proc. Zool. Soc. London, 1832, **1**, 132. 1832.2

—— On the reproduction of the eel. Rept. Brit. Assoc. Adv. Sci., 3. meet., 1833, pt. 2, 446–447. 1833.1

—— On the anal pouch of the male fishes in certain species of the genus Syngnathus Linn. Proc. Zool. Soc. London, 1834, **2**, 118–119. 1834.1

—— [Explanation of the mode of union after fracture of the processes of the vertebræ of a sole (*Solea vulgaris* Cuv.)] Proc. Zool. Soc. London, 1835, pt. 3, 57. 1835.1

—— [Note on the fœtal pouch of the male needle pipe-fish, *Syngnathus acus* Linn.] Proc. Zool. Soc. London, 1835, pt. 3, 183. 1835.2

—— Ueber *Syngnathus acus* und *S. typhle.* Notizen (Froriep), 1835, **44**, no. 964, 279–280. 1835.3

—— A history of British fishes, illustrated by nearly 400 wood-cuts. 2 vols. London, 1836. 400 figs. 8°. 1836.1

—— The same. 2. ed., with supplement. 2 vols. London, 1841.

—— The same. 3. ed., with figures and descriptions of the additional species, by John Richardson. 2 vols. London, 1859. 522 woodcuts. portr.

—— Descriptions of three British species of freshwater fishes belonging to the genus Leuciscus Klein. Trans. Linn. Soc. London, 1837, **17**, 5–10. fig. — Faunus (Gistl), **1**, 128. 1837.1

—— Zur Physiologie der Fische. Neue Notizen (Froriep), 1837, **2**, no. 44, 337–341. 1837.2

—— On a new species of smelt from the isle of Bute (*Osmerus hebridicus*) Rept. Brit. Assoc. Adv. Sci., 8. meet., 1838, pt. 2, 108–109. 1838.1

—— Note on a small but perfect specimen of the eagle ray, *Myliobatis aquila* of British fishes. Proc. Zool. Soc. London, 1839, 145. 1839.1

—— On the growth of the salmon in fresh water; with six coloured illustrations of the fish of the natural size, exhibiting its character and exact appearance and various stages during the first two years. London, 1839. 3 p. illust. fol. 1839.2

—— Remarks on some species of the genus Syngnathus. Ann. Mag. Nat. Hist., 1839, **3**, 81–85. fig. 1839.3

—— Note on the recent occurrence of new or rare fishes in England. Zoologist, 1843, **1**, 85. 1843.1

—— Note on *Clupea harengus*. Proc. Zool. Soc. London, 1845, **13**, 91. 1845.1

—— Chapter on fish and fish diet (In Harvey, W. H. The seaside book. London, 1857. 16°) 1857.1

—— A second supplement to the first and second editions of "A history of British fishes," by John Richardson. London, 1860. 8°. 1860.1

Yarrell, *William,* & **Clarke,** *William Barnard.* Letter[s] . . . noticing the recent occurrence of the fry of a species of Hemirhamphus on the coast of Suffolk, etc. Mag. Nat. Hist., 1837, n. s. **1**, 505–507. fig. 1837.1

Yarrow, *Harry Crécy* [1840 —] The Carolina Hemirhamphus. Amer. Naturalist, 1872, **6**, 369. 1872.1

—— Notes on the mullet, as observed at Beaufort harbor, North Carolina. Amer. Sportsman, 1874, **4**, 290. 1874.1

—— Notes on the shad as observed at Beaufort harbor, North Carolina, and vicinity. Amer. Sportsman, 1874, **4**, 98. — Rept. U . S. Fish Comm. 1872–73 (1874), **2**, 452–456. 1874.2

—— On the speckled trout of Utah lake (*Salmo virginalis* Girard) Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 363–368. — Amer. Sportsman, 1874, **4**, 68–69. 1874.3

—— La pisciculture aux Etats-Unis. C. R. Assoc. Franç. Avanc. Sci. 2. sess. 1873 (1874), 539–542. 1874.4

—— Report of a reconnaissance of the shad rivers south of the Potomac. Rept. U. S. Fish Comm. 1872–73 (1874), **2** (Append. C), 396–402. 1874.5

—— Description of a new species of fish [*Apocope couesi*, sp. nov.] from the mountains of Arizona. Field & Forest, 1875, **1**, 39. 1875.1

—— Viviparous perch [their abundance at Santa Barbara] Forest & Stream, 1876, **6**, 132; 180. fig. 1876.1

—— Notes on the natural history of Fort Macon, N. C., and vicinity. Proc. Acad. Nat. Sci. Philad., 1877, 203–218. 1877.1

No. 3, Fishes.

—— The young of *Phycis americanus.* Forest & Stream, 1877, **8**, 340. 1877.2

—— Viviparous perch. Chicago Field, 1879, **10**, 348. 1879.1

—— The oil shark of southern California. Chicago Field, 1880, **13**, 305. 1880.1

Yarrow, *H. C.*, & **Cope,** *E. D. See* **Cope & Yarrow.**

Yarrow, *Harry Crécy,* & **Henshaw,** *H. W.* List of marine fishes collected on the coast of California, near Santa Barbara in 1875, with notes. Ann. Rept. U. S. Geogr. Surv. West 100th Meridian, 1878, 201–205. — Ann. Rept. Chief Engin., 1878, pt. 3, 1623–1627. 1878.1

Yarrow, *Harry Crécy,* & **Milner,** *James Wood.* The shad and alewife (species of Clupeidæ) of North America. Washington, 1874. 1874.1

Yarrow, *Harry Crécy,* & others. Zoology of Wheeler's expedition in Nevada, Utah, California, New Mexico and Arizona. With illustrations and descriptions of new species. Washington, 1875. 1020 p. 45 pls. 1875.1

Yashchenko, *Aleksandr.* The British Natural History Museum and other zoological institutions of the west of Europe [Text in Russian] Trav. Soc. Nat. St. Pétersbourg, Sect. Zool. Physiol., 1894, **24**. 118 p. 1894.1

Yasui, *Kono.* Koi no Weber'shi ki ni tsuite [On the Weber's organ of the carp] Dōbuts. Zasshi, Tōkyō, 1905, **17**, 207–211. 1905.1

Ybarra, *A. M. Fernandez de.* The letter of Dr. Diego Alvarez Chanca, dated 1494, relating to the second voyage of Columbus to America, being the first written document on the natural history, ethnography and ethnology of America. Smithson. Misc. Coll. 1906 (1907), **48**, 428–457. pl. 1907.1

Yeats, *John.* The natural history of the raw materials of commerce. London, 1870. 440 p. 8°. 1870.1

Newfoundland cod fisheries, p. 333.

Yen, *Wei-Ching W.* The fisheries of China. Proc. 4. Intern. Fish Congr. Washington. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 1, 367–373. 1910.1

Yhlen, *Gerhard von.* Berättelse öfver Bohusläns hafsfiske år 1873. Nord. Tidsskr. Fiskeri, 1875, n. s. 2. Jahrg., 66–78. *Ibid.*, 1876, 3. Jahrg., 54–57. *Ibid.*, 1878, 4. Jahrg., 162–170. 1875.1

—— Die Nutzbarmachung der Mergelgruben. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 9–10. 1879.1

—— Report of the sea fisheries of the län of Göteborg and Bohus in the year 1877 [translated by Joshua Lindahl] Rept. U. S. Fish Comm. 1877 (1879), **5**, 741–750. 1879.2

—— Die Seefischerei an der Westküste Schwedens. Stockholm, 1880. 62 p. 2 pls. 8°. 1880.1

—— Ueber die schwedische Lachszucht, in Veranlassung der Frage: "wann und wo soll man die Lachsbrut aussetzen." Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 130–131; 189–190; 213–214. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 85–86; 93–94; 103–104. 1880.2

Yoakum, *F. L.* Carp-culture in Texas. Bull. U. S. Fish Comm. 1882 (1883), **2**, 28–32. 1883.1

Yoder, *A. C.*, & **Eigenmann,** *Carl H.* *See* **Eigenmann** & **Yoder.**

Yoshimura, *K.* Ueber das Vorkommen einiger organischer Basen im getrockneten Rogen des Herings. Zeitschr. Physiol. Chem., 1913, **86**, 174–177. 1913.1

Yoshimura, *K.*, & **Kanai,** *M.* Beiträge zur Kenntnis der stickstoffhaltigen Bestandteile des getrockneten Kabeljau (*Gadus brandtii*) Zeitschr. Physiol. Chem., 1913, **88**, 345–351. 1913.1

Yost, *John.* Report upon the management of German carp by a Mississippi correspondent; from a letter to Prof. S. F. Baird. Bull. U. S. Fish Comm. 1882 (1883), **2**, 310. 1883.1

Young, *Alexander.* Chronicles of the pilgrim fathers of the colony of Plymouth, from 1602 to 1625. Boston, 1841. 504 p. 8°. 1841.1

Frequent mention of New England fisheries. Extract in Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 160.

—— The same. 2. ed. Boston, 1844. 502 p. 8°. 1844.1

—— Chronicles of the first planters of Massachusetts bay, from 1623 to 1636. Boston, 1846. 571 p. 8°. 1846.1

Frequent mention of fisheries in Massachusetts bay.

Young, *Andrew.* On the growth of the salmon. Proc. Roy. Soc. Edinburgh, 1842–43, **1**, no. 21, 398–399. — Neue Notizen (Froriep), 1846, **25**, no. 546, 277–278. 1842.1

—— On the growth of grilse and salmon [*Salmo salar*] Trans. Roy. Soc. Edinburgh, 1843, **15**, 343–348. — Ann. Mag. Nat. Hist., **11**, 157–158. — Notizen (Froriep), **25**, 277–278. 1843.1

—— On the propagation of eels. Proc. Ashmol. Soc., 1843, **2**, 51–52. — Notizen (Froriep), **31**, 295–296. 1843.2

—— The natural history and habits of the salmon; reasons for the decline of the fisheries. London, 1854. xii, 108 p. 8°. 1854.1

Young, *Andrew,* & **Buckland,** *F. T.* *See* **Buckland & Young.**

Young, *Andrew,* & **Fitzgibbon,** *Edward.* *See* **Fitzgibbon & Young.**

Young, *Andrew,* & **Walpole,** *Spencer.* *See* **Walpole & Young.**

Young, *Andrew,* **Walpole,** *Spencer,* & **Buckland,** *F. T.* *See* **Buckland, Walpole & Young.**

Young, *Archibald.* Salmon fisheries (In Holdsworth, E. W. H. Sea fisheries, p. 203–300. London, 1877. 16°) 1877.1

Young, *Daisy.* The implantation of the Glochidium on the fish. Univ. Missouri Bull., Sci. ser., 1911, **2**, 1–16. 2 pls. 1911.1

Young, *George William.* The Chalk area of north-east Surrey. Proc. Geol. Assoc. London, 1905, **19**, 188–219. map. 1905.1

—— The geological history of flying vertebrates. Proc. Geol. Assoc. London, 1915, **26**, 229–265. 3 pls. & 7 figs. 1915.1

Young, *J.* On the growth of the salmon. Ann. Mag. Nat. Hist., 1843, **11**, 157. 1843.1

Young, *John.* Note on the scales of Rhizodus Owen. Quart. Journ. Geol. Soc., 1866, **22**, 317. — Phil. Mag., 1866, **31**, 401. 1866.1

—— Notice of new genera of Carboniferous Glyptodipterines. Quart. Journ. Geol. Soc., 1866, **22**, 597–608. 8 figs. 1866.2

Defines Rhizodus Owen.

—— On the affinities of Chondrosteus Ag., and notice of new genera of Carboniferous Glyptodipterines. Phil. Mag., 1866, **32**, 234. 1866.3

—— On the affinities of Platysomus and allied genera. Quart. Journ. Geol. Soc., 1866, **22**, 301–317. 2 pls. & 4 figs. Abstract in Phil. Mag., 1866, **31**, 400–401. — Neues Jahrb. Mineral., 1867, 126–127. 1866.4

—— [Exhibition of Palæonisci from fossil black-band] Trans. Geol. Soc. Glasgow 1864–67 (1867), **2**, 56. 1867.1

—— Notice of the occurrence of *Rhizodus hibberti* in Carboniferous strata in the neighborhood of Glasgow. Trans. Geol. Soc. Glasgow 1864–67 (1867), **2**, 38–39. 1867.2

—— Notiz über neue Gattungen der carbonischen Glyptodipterinen. Neues Jahrb. Mineral., 1867, 504. 1867.3

—— Notice of two new instruments (for measuring fossil fish and for measuring shells) Proc. Glasgow Phil. Soc., 1868, **6**, 191–196. 1868.1

—— On the occurrence of the remains of Carboniferous fishes in certain thin beds of indurated shale that lie between sheets of igneous trap, composing the Kilpatrick range of hills at Auchentorlie, near Bowling. Geol. Mag., 1870, **7**, 296–297. 1870.1

—— What are conodonts? Sci. Gossip, 1878, **14**, 260–261. *Ibid.*, 1879, **15**, 18; 139. 1879.1

—— On a group of fossil organisms termed conodonts. Proc. Nat. Hist. Soc. Glasgow 1878–80 (1880), **4**, pt. 1, 5–7. 1880.1

Young, *Lambton J. H.* Sea-fishing as a sport; being an account of the various kinds of sea-fish, how, when, and where to catch them, in their various seasons and localities. London, 1865. xvi, 220 p. 7 pls. 8°. 1865.1

Contains a brief historical sketch of British fisheries.

—— The same. 2. ed. London, 1872. xi, 220 p. 13 pls. 8°. 1872.1

A colored frontispiece and five colored plates have been added to this edition.

Young, *M.*, & **Eagle Clarke,** *W.* On *Anarrhichas minor* Olafsen, and its occurrence on the Aberdeenshire coast. Ann. Scottish Nat. Hist., 1892, **1**, 26–29. pl. 1892.1

Young, *R. T.*, & **Cole,** *L. J.* On the nesting habits of the brook lamprey (*Lampetra wilderi*) Amer. Naturalist, 1900, **34**, 617–620. 1900.1

Young, *William S.* Notice of a specimen of the *Syngnathus* [*Nerophis*] *æquoreus*, taken in a lobster net off Inchkeith 17th April 1861. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 290–291. 1863.1

—— On Professor M'Coy's ray without a name [*Raia maccoyii*], taken in the Firth of Forth, May, 1861. Proc. Roy. Phys. Soc. Edinburgh 1859–62 (1863), **2**, 417–419. 1863.2

Younger, *John.* Fresh hints on the nature of the salmon. Trans. Highland Agric. Soc. Scotland [n. d.] n. s. **2**, 497.

Younger, *J.*
—— River angling for salmon and trout . . . with a treatise on the salmon, etc. Kelso & Edinburgh, 1860. 206 p. 16°. 1860.1

Ysabeau, *A.* Des causes de mortalité des poissons d'eau douce. Journ. des Instituteurs, 1867, no. 7, 98. 1867.1

Yule, *(Sir) Henry (editor)* [1820–1889] The book of Marco Polo . . . concerning the kingdoms and marvels of the East. Newly translated and edited, with notes by Col. H. Yule. 2 vols. London, 1871. 1871.1

Yung, *Emile Jean Jacques* [1854 —] L'évolution de la fonction digestive. Arch. Sci. Phys. Nat., Genève, 1895, 3. sér. **34**. 1895.1

—— Phénomènes de la digestion chez les squales. Arch. Sci. Phys. Nat., Genève, 1895, 3. sér. **34**, 464–468. — C. R. Soc. Helvèt. Sci. Nat., Genève, 77. sess., 74–76. *Ibid.*, 78. sess., 44–48. 1895.1

—— Sur la digestion des squales. Actes Soc. Helvèt. Sci. Nat., Genève, 78. sess., 1896, 49–51. 1896.1

—— De la digestion gastrique chez les squales. C. R. Acad. Sci. Paris, 1898, **126**, 1885–1887. 1898.1

—— Sur la structure intime et les fonctions de l'intestin des poissons. Arch. Sci. Nat., Genève, 1898, 4. ser. **6**, 509–511. — C. R. Soc. Helvèt. Sci. Nat., Genève, 81. sess., 1898, 92–94. 1898.2

—— Sur les fonctions du pancréas chez les squales. C. R. Acad. Sci. Paris, 1898, **127**, 77–78. 1898.3

—— La digestion gastrique chez les poissons. Rev. Scient., 1899, 4. sér. **11**, 65–74. 1899.1

—— Note sur un cas de monstruosité de la tête chez une truite. Rev. Suisse Zool., Genève, 1901, **9**, 307–313; 315–323. pl. 1901.1

—— *L'Amphioxus lanceolatus.* Arch. Sci. Phys. Nat., Genève, 1906, 4. sér. **22**, 86. 1906.1

—— La digestion chez les poissons sans estomac. Arch. Sci. Phys. Nat., Genève, 1914, **38**, 71–72. 1914.1

Poissons dont l'estomac est dépourvu de glandes gastriques. Action énergique du suc hépato-pancréatique sur les fécules, saponification des graisses. Chez *Crenilabrus melops* le ferment protéolytique est fourni par la nourriture (Mysis)

Yung, *Emile,* & **Egounoff,** *Sophie.* *See* **Egounoff** & **Yung.**

Yung, *Emile,* & **Fuhrmann,** *Otto.* *See* **Fuhrmann** & **Yung.**

Yung, *Emile,* & **Vogt,** *K.* *See* **Vogt** & **Yung.**

Yxem, —— Ueber Fischzähne im Plänerkalk von Queklinburg. Ber. Naturw. Ver. Harzes, 1840–41 & 1845–46. Reprint 1856. 82 p. 1856.1

Z

Zachariadès, *Paul A.* Note sur le réseau cellulaire de l'opercule du cyprin doré. C. R. Mém. Soc. Biol. Paris, 1891, 9. sér. **3**, 281–282. 1891.1

Zacharias, *Emil Otto* [1846 —] Some of the life needs of fish. Bull. U. S. Fish Comm. 1886 (1887), **6**, 445–447. 1887.1

—— (*editor*) Die Tier- und Pflanzenwelt des Süsswassers. 2 vols. Leipzig, 1891. illust. 8°. 1891.1

Die deutschen Süsswasserfische und ihre Lebensverhältnisse, von A. Seligo. vol. ii, no. 4.
Die Parasiten unserer Süsswasserfische, von F. Zschokke. vol. ii, no. 5.
Die Fauna des Süsswassers in ihren Beziehungen zu der des Meeres, von O. Zacharias. vol. ii, no. 7.

—— Om sötvattens plankton betraktadt såsom fiskarnes näring. Fiskeritidskr. Finl., 1892, **1**, 149–150. 1892.1

—— Ueber eine Ichthyophthiriusart aus den Aquarien der Biologischen Station in Plön (In Festschrift zum siebenzigsten Geburtstag R. Leuckarts. Leipzig, 1892. 4°) 1892.2

—— Eingekapselte Saugwürmer am Herzen einer Maräne. Biol. Centralbl., 1893, **13**, 192. 1893.1

—— Fauna des grossen Plöner Sees [Pisces] Biol. Centralbl., 1893, **13**, 382. 1893.2

—— Ein infusorieller Hauptparasit bei Süsswasserfischen. Biol. Centralbl., 1893, **13**, 23–25. 1893.3

—— Die mikroskopische Organismenwelt des Süsswassers in ihrer Beziehung zur Ernährung der Fische. Biol. Centralbl., 1893, **13**, 155–160. 1893.4

—— Les organismes microscopiques d'eau douce et leur rôle dans la nourriture des poissons. Bull. Soc. Centr. Aquicult. Pêche, 1894, **6**, 121–127. 1894.1

—— Ueber die Möglichkeit einer biologischen Bonitierung von Fischteichen. Biol. Centralbl., 1895, **15**, 847–848. 1895.1

—— Ueber die natürliche Nahrung der jungen Wildfische in Binnenseen. Biol. Centralbl., 1896, **16**, no. 2, 60–66. 1896.1

—— Merkwürdige Lebensgewohnheiten bei Tieren. Die Natur, 1898, 47. Jahrg., 591–593. 1898.1

—— Ueber einige interessante Funde im Plankton sächsischer Fischteiche. Biol. Centralbl., 1898, **18**, 714–718. 5 figs. 1898.2

—— Ueber Nachweis und Vorkommen von Nuclein. Ber. Bot. Ges., 1898, **16**, 185–198. 3 figs. 1898.3

Mikrochemisches über Sperma von Salmo.

—— Beiträge zur Kenntniss der natürlichen Nahrung junger Süsswasserfische. Zool. Anz., 1901, **24**, 390–394. 1901.1

—— Beiträge zur Kenntniss der natürlichen Nahrung junger Süsswasserfische. Deutsch. Fischerei Zeitg., 1902, **25**, 309–311; 572–574. 1902.1

—— Ueber die Diatomen als Fischnahrung. Allgem. Fischerei Zeitg., 1902, 27. Jahrg., 323–324. 1902.2

—— Ueber die natürliche Nahrung einiger Süsswasserfische. Forschungsbericht Biol. Stat. Plön, 1902, **9**, 62–69. 1902.3

—— Mitteilung über gelegentlich aufgefundene Parasiten den Fischfauna von Plön. Forschungsbericht Biol. Stat. Plön., 1903, **10**, 100–104. 1903.1

—— Alte Ziele und neue Wege im Fischereiwesen. Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 345–349. 1904.1

—— Una voce dall' Italia sui rapporti tra la scienza e la pesca. Acquicolt. Lombarda, Milano, 1904, **6**, 319–326. 1904.2

—— Heringe im Süsswasser [bei Husum] Fischerei Zeitg., Neudamm, 1905, **8**, 832–833. 1905.1

—— Hydrobiologische und fischereiwirtschaftliche Beobachtungen an eini-

Zacharias, *E. O.*
gen Seen der Schweiz und Italiens. . Forschber. Biol. Stat. Plön, Berlin, 1905, **12**, 169–302. 1905.2

—— Die moderne Hydrobiologie und ihr Verhältnis zur Fischzucht und Fischerei. Arch. Hydrobiol., Stuttgart, 1905, **1**, 82–108. — Biol. Centralbl., **25**, 322–329; 352–365. 1905.3

—— Die Station für Fischzucht und Hydrobiologie an der Universität Toulouse. Allgem. Fischerei Zeitg., 1905, 30. Jahrg., 42–45. 1905.4

—— Zur Kenntnis der Nahrung junger Aale. Allgem. Fischerei Zeitg., 1905, 30. Jahrg., 33. 1905.5

—— Können die Fische hören oder nicht? Oesterr.-ungar. Fischerei Zeitg., 1906, 3. Jahrg., 371–374. 1906.1

—— Die natürliche Nahrung der jungen Wildfische in Binnenseen. Unsere Welt, Godesberg, 1909, **1**, 389–394. 1909.1

Zacher, *Julius.* Pseudocallisthenes; Forschungen zur Kritik und Geschichte der ältesten Aufzeichnung der Alexandersage. Halle, 1867. 1867.1

Zaddach, *Ernst Gustav* [1817–1881] Ueber *Cestracion philippi.* Schrift. Phys.-oekon. Ges. Königsberg, 1872, **13** (*Sitzber.*), 7–8. 1872.1

—— Ueber Fische mit doppelten Athmungsorganen. Schrift. Phys.-oekon. Ges. Königsberg, 1873, **14** (*Sitzber*), 17–19. 1873.1

Zäringer, *Joannes Baptista.* Quædam de historia naturali et descriptio sceleti *Salmonis farionis.* Inaug. Dissert. Friburgi, 1829. viii, 70 p. 8°. 1829.1

Zaghorskii, *Aleksandr Petrovich* [1807–1888] De systemate nerveo piscium considerationes. Inaug. Dissert. Dorpati, 1833. 32 p. illust. 4°. 1833.1

Zagorsky, *Alexander. See* **Zaghorskii,** *A. P.*

Zahálka, *Čeněk.* Palæontologie křidového útvaru ve Vysočině Řipské a v Polomených Horách [Paläontologie der Kreideformation des Plateau des Georgsberges bei Raudnitz] Sitzber. Böhm. Ges. Wiss. Prag 1896 (1897), no. 21. 28 p. 1897.1
Pisces, p. 15.

—— Pásmo V. Roudnické — Vehlovické a Pásmo VII, VIII. Křidového utvaru v Poohři. Sitzber. Böhm. Ges. Wiss. Prag, 1898, no. 5. 78 p. 2 pls. *Ibid.*, no. 10. 20 p. pl. 1898.1

—— Pásmo IX. Březenské — křidového útvaru v Poohří [Zone IX. Etage der Kreideformation im Egergebiete] Sitzber. Böhm. Ges. Wiss. Prag, 1899, no. 4. 103 p. 6 pls. 1899.1
List of fossil fishes, p. 84–85.

—— Pásmo I–VII. Křidového útvaru v Pojizeři. Sitzber. Böhm. Ges. Wiss. Prag, 1902, no. 3. 15 p. 2 pls. *Ibid.*, no. 4. 5 p. *Ibid.*, no. 15. 5 p. *Ibid.*, no. 16. 22 p. 2 pls. *Ibid.*, no. 26. 17 p. 2 pls. 1902.1

—— Pásmo IX. Křidového útvaru v Pojizeři. Sitzber. Böhm. Ges. Wiss. Prag, 1903. 157 p. pl. 1903.1

—— Pásmo X. Kridového útvaru v Pojizeři. Sitzber. Böhm. Ges. Wiss. Prag, 1905, no. 17. 185 p. 4 pls. 1905.1

—— Zone X der Kreideformation im Isergebiet. Sitzber. Böhm. Ges. Wiss. 1905 (1906), no. 17, 1–184. 1906.1

Zalenskii, *Vladimir Vladimirovich* [also written **Salensky** *W. W.*] [1847 —] History of the development of the sterlet, *Acipenser ruthenus*, preliminary communication [Text in Russian] 3 parts. Protokolui Zasyedanii Obshchestvo Estestvoispuitatelei, Kazan 1876–77 (1877–78), prilozheniya, no. 23 & 27; 1877–78, no. 37. 1876.1

—— Embryologie der Ganoiden. I. Impregnation and cleavage of the egg of the sterlet. II. Development of the skeleton in the sterlet. Zool. Anz., 1878, 1. Jahrg., no. 11, 243–245; no. 12, 266–269; no. 13, 288–291. 1878.1

—— On the development of the sterlet, *Acipenser ruthenus* [Text in Russian] 2 parts. Trudui Obshchestvo Estestvoispuitatelei, Kazan, 1878–80, **7**, no. 3. iii, 545 p. 19 pls. 1878.2
The second part was originally numerated as vol. x, no. 2, and subsequently corrected.

—— Entwicklungsgeschichte des Sterlets (*Acipenser ruthenus*) Vorläufige Mittheilung [Text in Russian] Sitzber. Ges. Naturf. Univ. Kasan 1877 (1878). 24 p. 1878.3

—— The developmental history of *Acipenser ruthenus.* I. The embryonal

stage. II. Post-embryonic development of the organs [Text in Russian] Trans. Soc. Nat. Kazan, 1879, **7**, pt. 3, 226 p. 9 pls. — Mém. Soc. Nat. Univ. Kasan, 1880, **10**, pt. 2, 227–545. 1879.1

—— Recherches sur le développement du sterlet (*Acipenser ruthenus*) Arch. Biol., 1881, **2**, 233–341. 4 pls. Also separate; Ghent, 1881. 4 pls. 8°. 1881.1

—— Ueber die Thätigkeit der Kalymmocyten (Testazellen) bei der Entwicklung einiger Synasciden (In Festschrift zum siebenzigsten Geburtstage Rudolf Leuckarts, Leipzig, 1892, 109–120) 1892.1

Comparisons with fishes.

—— On the development of the ichthyopterygium in ganoid and dipnoan fishes [Text in Russian] Ann. Mus. Acad. St. Petersb., 1898, 215–275. 4 pls. 1898.1

—— Zur Entwicklungsgeschichte des Ichthyopterygiums. Proc. 4. Internat. Congr. Zool., Cambridge, Eng., 1898, 177–183. 1898.2

—— Développement des nageoires impaires des acipensérides. Ann. Zool. Acad. Sci., 1899, **4**, 299–324. Also separate; St. Pétersburg, 1899. 3 pls. 1899.1

Zalsman, *P. G.* Experiments in fish-culture. Trans. Amer. Fisheries Soc. 1913 (1914), 161–164. 1914.1

Zander, *Enoch.* Neuere Untersuchungen über die natürliche Nahrung bei Süsswasserfischen. Zeitschr. Wiss. Zool., 1903, **75**. 1903.1

—— Studien über das Kiemenfilter bei Süsswasserfischen. Zeitschr. Wiss. Zool., 1903, **75**, 233–257. 17 figs. 1903.2

—— Das Kiemenfilter bei Tiefseefischen. Zeitschr. Wiss. Zool., 1906, **85**, 157–182. pl. & 17 figs. 1906.1

—— Das Kiemenfilter der Teleostier. Eine morpho-physiologische Studie. Zeitschr. Wiss. Zool., 1906, **84**, 619–713. 2 pls. 1906.2

Zanetti, *C. U.* Sulla non-prevalenza dei sali potassici nella bile dei pesci marini; nota preliminare. Rendic. Accad. Lincei, Roma, 1902, 5. ser. **11**, pt. 2, 275–277. — Monit. Zool. Ital., Firenze, 13 (*Suppl.*), 48–49. 1902.1

Zangerl, *Jos.* Fischzucht-Anstalt von Franz Fischill in Gmünden. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 116. — Oesterr.-ungar. Fischerei Zeitg., 1880, 50–51. 1880.1

Zanichelli, *W.* Sullo sviluppo dello scheletro viscerale della trota (*Salmo fario* L.) Boll. Soc. Zool. Ital., 1909, 2. ser. **10**, 239–255. 1909.1

Zannichelli, —— Enumeratio rerum naturalium quæ in musæo Zannichelliano asservantur. Abarus alter, in quo fossilia figurata continentur. Milano, 1793. 1793.1

Zantedeschi, *Francesco* [1797–1873] Esperienze istituite sulle correnti elettriche delle torpedini negli stadi di vita e di morte. Atti Sci. Ital., Firenze, 1841. 1841.1

—— Sur les phénomènes électriques de la torpille. C. R. Acad. Sci. Paris, 1842, **14**, 488–490. — Notizen (Froriep), **23**, 37–39. 1842.1

—— Sulla legge del magnetismo nel filo congiuntivo percorso dalla corrente Voltiana; et sullo stato elettrico del cervello della torpedine, in relazione al dorso ed al ventre della medesima. Atti Istit. Veneto Sci. Venezia, 1843, **2**, 427–430. 1843.1

—— Della struttura dell' organo elettrico della torpedine. Ann. Sci. Lombardo Veneto, 1845, **14**, 199–202. 1845.1

—— Nouvelles expériences d'électricité animale. C. R. Acad. Sci. Paris, 1852, **35**, 480–481. 1852.1

Zarnik, *Boris.* Ueber die Geschlechtsorgane von Amphioxus. Zool. Jahrb. (*Abth. Anat.*), 1904, **21**, 253–338. 5 pls. & 17 figs. 1904.1

—— Ueber segmentale Venen bei Amphioxus und ihr Verhältnis zum Ductus Cuvierii. Anat. Anz., 1904, **24**, 609–630. pl. & 7 figs. 1904.2

—— Ueber Zellenauswanderungen in der Leber und im Mitteldarm vom Amphioxus. Anat. Anz., 1905, **27**, 433–449. 8 figs. 1905.1

—— Ueber abnorme Lage und Ausbildung der hintersten Gonaden von Amphioxus. Anat. Anz., 1911, **38**, 224–230. 4 figs. 1911.1

Zarudnuĭ, *Nikolai Aleksyevich.* Ueber die Reptilien, Amphibien und

Zarudnuĭ, *N. A.* Fische von Ost-Persien. Herpetologische und ichthyologische Resultate einer Excursion nach Ost-Persien im Jahre 1898 [Text in Russian] Zap. Russ. Geogr. Obšč., St. Petersb., 1904, **36**, pt. 3, 1–42. 1904.1

Zaunick, *Rudolph.* Fragmente der ältesten sächsischen Fischfauna des Dr. Johannes Kentmann (1518–1574) Abh. Naturw. Ges. Isis, Dresden, 1915, 15–36. 1915.1

Zavadski, *Alexander* [1798–1868] Fauna der galizisch-bukowinischen Wirbelthiere. Stuttgart, 1840. 8°. 1840.1

Fische der obern Werchsel, p. 162.

Zavadskiĭ, *Aleksandr Mikhailovich.* Die Entwickelung des rudimentalen larvalen Haftapparates beim Sterlet (*Acipenser ruthenus*) [Text in Russian] Trd. Obšč. Jest., Kazan, 1911, **44**, pt. 1, 1–27. 1911.1

—— Die Morphogenese des Mundes und des Schlundes des Sterlets [Text in Russian] Prot. Obšč. Jest., Kazan, 1912, **43**, 34–36. 1912.1

Zdarek, *Emil.* Untersuchung des Mesenterialfettes von *Thalassochelys corticata* Rond. und *Cyprinus carpio* L. Zeitschr. Physiol. Chem., 1902–03, **37**, 460–463. 1902.1

—— Untersuchung der Eier von *Acanthias vulgaris* Risso. Zeitschr. Physiol. Chem., 1904, **41**, 524–529. 1904.1

Zdeborszky, *K.* Ein neues, sehr praktisches Schleussenhaus. Oesterr.-ungar. Fischerei Zeitg., 1880, 197–199. 1880.1

Zeballos, *Estanislao S.* Apurtaciónes para la bibliografia argentina. Bol. Inst. Geograf. Argentino, 1897, **28**, 71–82. 1897.1

Lista de las publicaciónes cientificas hechas desde 1873 hasta 1897 por el Dr. Carlos Berg.

Zelarovich, *Angela.* Primo manipolo d' animali marini catturati da alcune reti a strascico nel golfo di Catania. Atti Accad. Gioenia Sci. Nat. Catania, 1913, 5. ser. **6**, mem. 21. 17 p. 1913.1

Zelinka, *Carl.* Ueber die Nerven in der Cornea der Knochenfische. Zool. Anz., 1881, **4**, 338–339. 1881.1

—— Die Nerven der Cornea der Knochenfische und ihre Endigung im Epithel. Arch. Mikr. Anat., 1882, **21**, 202–239. 2 pls. 1882.1

Zelizko, *Johan Vratislav* [1874 —] O křídovém útvaru okolí Pardubic a Přelouče [Ueber die Kreideformation in der Umgebung von Pardubic und Prelouč in Ostböhmen] Sitzber. Böhm. Ges. Wiss. Prag, 1899, no. 18. 18 p. — Jahrber Geol. Reichsanst., Wien, **49**, 529–544. 1899.1

Zenk, *F.* Prices of carp, tench and goldorfe in Germany. Bull. U. S. Fish Comm. 1883, **3**, 406. 1883.1

—— Unsere heimische Fische insbesonder die Fische des Mains. Die Fischgewässer in Unterfrankfort und Aschaffenburg. Würzburg, 1889. 1889.1

—— Ueber die Laichzeit des Aales. Mitth. Oesterr. Fisch., 1891, no. 39. — Zool. Garten, **33**, 61–62. 1891.1

Zenker, —— Beschreibung und Abbildung des *Leuciscus cephalon* in Lignit. Neues Jahrb. Mineral., 1833, 395–397. figs. 1833.1

Zenneck, *J.* Reagiren die Fische auf Töne? Arch. Ges. Physiol. (Pflüger), 1903, **95**, 346–356. 6 figs. 1903.1

—— Ueber das Hören der Fische. Jahresber. Rhein. Fisch.-Ver., Bonn, 1904, 66–68. 1904.1

Zeno, *Nicholas,* & **Zeno,** *Antonio.* The discovery of the isles of Friesland, Iceland, Engroneland, Estotiland, Drogeo and Icaria, made by . . . M. Nicholas Zeno and M. Antonio his brother; gathered out of their letters by M. Francisco Marcolino (1380–90) (In Hakluyt's Voyages, ed. 1810, vol. iii, p. 157–166) 1810.1

Contains mention of the fisheries of Greenland.

Zentz, *F.* On the races of varieties of carp, denying the existence of blue carp and gold carp. Bull. U. S. Fish Comm. 1881 (1882), **1**, 387–389. 1882.1

Zernecke, *E.* Leitfaden für Aquarien- und Terrarien-Freunde, u. s. w. Berlin, 1897. 4°. 1897.1

Zernov, *Serghyei Aleksyevich.* Erster (vorläufiger) Bericht über die Erforschung der Fischerei im Taurischen Gouvernement, unternommen Gemäss den Bestimmungen der 36. Taurischen Landschaftsession [Text in Russian] Simferopolĭ, 1902. 25 p. pls. 1902.1

—— Compte-rendu de l'expédition pour l'exploration faunistique de la

partie nord-ouest de la mer Noire. Ann. Mus. Zool. Acad. Sci. St. Pétersb., 1909, **13**, 0154–0166. map. 1909.1

—— [Ein Beitrag zur Kenntnis der Lebenserscheinungen des Schwarzen Meeres] Mém. Acad. Sci. St. Pétersb., 1913, 8. sér. **32**, 1–299. 8 pls. & 2 maps. 1913.1

—— Contribution à la question de l'étude de la vie de la mer Nord [Text in Russian] Mém. Acad. Sci. St. Pétersb., phys.-math. Cl., 1913, 8. sér. 32, no. 1. 299 p. 8 pls., 13 figs. & 2 maps. 1913.2

Zetter, *Johann Theophil Max.* Salzburg's Fische. Vorwort zu der Fisch-Sammlung des Herrn J. Aigner . . . von J. T. M. Zetter. Jahresber. Städt. Mus. Carolino Augusteum, Salzburg, 1859. Anhang C. 1859.1

Zeyneck, *Richard von.* Ueber den blauen Farbstoff aus den Flossen von *Crenilabrus pavo.* Zeitschr. Physiol. Chem., 1901, **34**, 148–152; 568–574. pl. 1901.1

—— Ueber den blauen Farbstoff aus den Flossen des *Crenilabrus pavo.* Sitzber. Akad. Wiss. Wien, math.-nat. Cl., 1912, **121**, Abt. 2 B, 1495–1511. 1912.1

—— Ueber den blauen Farbstoff des *Crenilabrus pavo.* Anz. Akad. Wiss. Wien, 1912, 49. Jahrg., 481–482. 1912.2

Žežula, *B.* Das Sichbetrachten der Fische im Spiegel. Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 235–237. 1909.1

Zhuiovic, *Iovan M.* [1856 —] Bibliografia za gheologhiu Balkanskogha poluostrov . . . I, 1886 [Bibliographie géologique de la presqu'île des Balkans. I, 1886] Beoghrad, 1888. 12 p. 4°. 1888.1

Servian and French in parallel columns.

Zhuk, *Vladimir.* Ammocœtes. Der Bau der Neunaugenlarve [Text in Russian] Trav. Soc. Nat. St. Petersb., 1907, **36**, pt. 4, 1–36. 4 pls. 1907.1

Aeussere Merkmale, allgemeine Topographie der Glieder, Hautdecke, Skelett, Muskel, u. s. w. der Larve von Petromyzon.

Zichy, *Jenö. See* **Jankó,** *János.*

Ziegeler, *Gustav.* Fischkrankheiten. Wochenschr. Aquar.-Terrar. Kunde, 1905, 2. Jahrg., 127–128; 149–154. 1905.1

—— Etwas über Fische. Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 461–463; 678–680. 3 figs. 1909.1

Ziegenhagen, *Paul.* Ueber das Gefässsystem bei Salmonidenembryonen. Verh. Anat. Ges., Anat. Anz., 1894, **10**, 84–89. 1894.1

—— Beiträge zur Anatomie der Fischaugen. Inaug. Dissert. Berlin, 1895. 8°. 1895.1

—— Ueber Entwickelung der Circulation bei Teleostiern, insbesondere bei Belone. Verh. Anat. Ges., Anat. Anz., 1896, **12**, 100–108. 1896.1

Ziegler, *Alexander.* Beobachtungen über die geographische Verbreitung und Wanderzüge der Häringe und das Knacken der Rennthiere. Petermann's Mitth., 1857, 418–420. 1857.1

Ziegler, *F.,* & **Ziegler,** *Heinrich Ernst. See* **Ziegler** & **Ziegler.**

Ziegler, *Heinrich Ernst* [1858 —] Embryonale Entwickelung von *Salmo salar.* Inaug. Dissert. Freiburg i. B., 1882. 62 p. 4 pls. 8°. 1882.1

—— Die Entstehung des Blutes bei Knochenfischembryonen. Arch. Mikr. Anat., 1887, **30**, 596–665. 3 pls. — Journ. Micr. Anat., 1888, p. 192. 1887.1

—— Ueber Gastrulation der Teleostier. Vers. Deutsch. Nat., 1887, **60**, 258. 1887.2

—— Der Ursprung der mesenchymatischen Gewebe bei den Selachiern. Arch. Mikr. Anat., 1888, **32**, 378–400. pl. 1888.1

—— Die Entstehung des Blutes der Wirbeltiere. Ber. Naturf. Ges. Freiburg i. B., 1889, **4**, 171–182. 1889.1

—— Biologische Bedeutung der amitotischen (direkten) Kernteilung im Tierreich. Leipzig, 1891. 1891.1

—— Ueber die embryonale Anlage des Blutes bei den Wirbeltiere. Verh. Deutsch. Zool. Ges., 1892, 18–30. 1892.1

—— Ueber das Verhalten der Kerne im Dotter der meroblastischen Wirbelthiere. Ber. Naturf. Ges. Freiburg i. B., 1894, **8**, 192–209. 1894.1

—— Die Entstehung des Periblastes bei den Knochenfischen. Anat. Anz., 1896, **12**, 353–370. 12 figs. 1896.1

Ziegler, *H. E.*

—— Die neueren Forschungen in der Embryologie der Ganoiden. Zool. Centralbl., 1900, 7. Jahrg., no. 4–5. 13 p. 7 figs. 1900.1

—— Lehrbuch der vergleichenden Entwickelungsgeschichte der niederen Wirbeltiere, in systematischer Reihenfolge und mit Berücksichtigung der experimentellen Embryologie bearbeitet. Jena, 1902. xii, 366 p. pl. & figs. 8°. 1902.1

—— Skelet der Knorpelfische (Selachier, Elasmobranchier) (In Zoologische Wandtafeln über Wirbelthiere, herausgegeben von C. Chun. Cassel & Leipzig [1903] 4°) 1903.1

—— Ein Embryo von *Chlamydoselachus anguineus* Garm. Anat. Anz., 1908, **33**, 561–574. 7 figs. 1908.1

—— Die phylogenetische Entstehung des Kopfes der Wirbeltiere. Jena. Zeitschr. Naturw., 1908, **43**, 653–684. pl. & 11 figs. 1908.2

—— Die sogenannten Hornfäden der Selachier und die Flossenstrahlen der Knochenfische. Zool. Anz., 1908, **33**, 721–727. 4 figs. 1908.3

—— Zoologisches Wörterbuch; Erklärung der zoologischen Fachausdrücke, Jena, 1909. 645 p. 529 figs. 8°. 1909.1

—— Ueber die Enterocöltheorie. Zool. Anz., 1914, **44**, 136–141. 1914.1

Divertikelbildung überall für känogenetisch gehalten. Fische.

Ziegler, *Heinrich Ernst,* & **Ziegler,** *F.* Beiträge zur Entwickelungsgeschichte von Torpedo. Arch. Mikr. Anat., 1892, **39**, 56–102. 2 pls. & figs. 1892.1

Zieten, *Carl Hartwig von* [1785–1846] Die Versteinerungen Württembergs, oder naturgetreue Abbildungen der in den vollständigen Sammlungen, namentlich der in dem Kabinet des . . . Dr. Hartmann befindlichen Petrefacten, mit Angabe der Gebirgs-Formationen, in welchen dieselben vorkommen, und der Fundorte (Les pétrifactions de Württemberg, etc.) Stuttgart, 1830. 102 p. illust. fol. 1830.1

German and French in parallel columns.

Issued in twelve parts, each having six plates. Part 1 & 2, p. 1–16, appeared in 1830; parts 3 & 4, p. 17–32, in 1831; parts 5–8, p. 33–64, in 1832, and parts 9–12, p. 65–96, in 1833.

Zietz, *Amandus H. C.* Pisces (In Report on the work of the Horn Scientific expedition to central Australia, edited by Baldwin Spencer. Part ii. Zoology, p. 176–180. pl. Appendix, p. 410–411 [London] 1896) 1896.1

—— List of the edible fish of the lower Murray. Trans. Roy. Soc. South Australia, 1902, **26**, 265–267. 1902.1

Zigno, (*Baron*) *Achille de* [1813–1892] For biographical notice and list of writings, *see* Omboni, G. A. de Zigno, Cenni biografici, etc. Padova, 1892. 55 p. 8°.

—— Nouveau gisement de poissons fossiles. Bull. Soc. Géol. France, 1852, **10**, 267–269. *Ibid.*, 1853, **11**, 469–470. 1852.1

Corrections of above, Bull. Soc. Géol. France, 1854, 2. sér. **11**, 469.

—— Sui resti fossili dei pesci trovati nel Veneto. Rivist. Period. Accad. Padova, 1857, **5**, fasc. 11, 21–33. 1857.1

—— Descrizione di una nuova specie di Folidofora [*Pholidophorus beggiatianus*] Atti Istit. Veneto, 1865–66, 3. ser. **11**, 963–970. pl. 1865.1

—— Catalogo ragionato dei pesci fossili del calcare eoceno dei monti Bolca e Postale disposti secondo il metodo dell' Agassiz modificato dal Pictet. Atti Istit. Veneto, 1873–74, 4. ser. **3**, 1079–1116; 1153–1187; 1389–1421; 1639–1665; 1897–1929; 2195–2241. Abstract in Verh. Geol. Reichsanst. Wien, 1875, 37. 1873.1

—— Annotazioni paleontologiche. Pesci fossili nuovi del calcare eoceno dei monti Bolca e Postale. Mem. Istit. Veneto Sci., 1874, **18**, 287–301. 3 pls. 1874.1

—— Annotazioni paleontologiche. Aggiunte alla ittiologia dell' epoca eocena. Mem. Istit. Veneto Sci., 1876, **20**, 445–456. Abstract in Bull. Comit. Geol. Italia, 1879, **10**, 64. 1876.1

—— Sui vertebrati fossili dei terreni mesozoici delle Alpi Venete. N. Saggi Accad. Sci. Padova, 1883, **9**, pt. 1, 315–326. 1883.1

—— Sopra uno scheletro fossile di Myliobatis esistente nel museo Gazola in Verona. Mem. R. Istit. Veneto, 1885, 679–688. pl. 1885.1

—— Due nuovi pesci fossili della famiglia dei Balistini scoperti nel terreno Eoceno del Veronese. Mem. Soc. Ital. Sci., 1887, 3. ser. **6**, no. 4. 8 p. 2 pls. 1887.1

—— Nuove aggiunte all' ittiofauna dell' epoca eocena. Mem. Istit. Veneto, 1890, **23**, 9–33. pl. 1890.1

—— Pesci fossili di Lumezzane in val Trompia. Atti Accad. Lincei, 1895, 4. ser. **7**, 51–59. 2 pls. 1895.1

Zila, *Franz.* Die Fische unserer fliessenden Gewässer. Mitth. Mähr. Schles. Ges. Ackerbau Natur-Landesk., 1879, 59. Jahrg., 281–283; 290–294; 298–299. 1879.1

—— Die Forellen-Fischerei im politischen Bezirke Mährisch-Schönberg. Oesterr.-ungar. Fischerei Zeitg., 1880, 279–280. 1880.1

Zill, —— Note sur l'existence de la truite en Algérie [*Salmo fario* L.] Ann. Sci. Nat. (*Zool.*), 1858, 4. ser. **9**, 126–128. 1858.1

Zimmermann, —— Ueber die Contraction der Pigmentzellen der Knochenfische. Anat. Anz. (Verh. Anat. Ges.), 1893, **9**, 76–78. 1893.1

—— Zur Fortpflanzung des *Danio rerio.* Wochenschr. Aquar. - Terrar. Kunde, 1904, 3. Jahrg., 219–221. fig. 1904.1

—— Beobachtungen bei der Aufzucht des Chanchito (*Heros facetus*) Wochenschr. Aquar.-Terrar. Kunde, 1907, 4. Jahrg., 13–15; 29–31. fig. 1907.1

—— Beitrag zur Kenntnis von *Haplochilus sexfasciatus* und *H. spilargyreus.* Wochenschr. Aquar.-Terrar. Kunde, 1908, 5. Jahrg., 189–190; 201–202. 1908.1

—— *Pseudoxiphophorus bimaculatus.* Wochenschr. Aquar.-Terrar. Kunde, 1909, 6. Jahrg., 473–474. fig. 1909.1

—— *Xiphophorus helleri.* Blätt. Aquar.-Terrar. Kunde, 1909, 20. Jahrg., 715–717. fig. 1909.2

—— *Etroplus maculatus.* Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 671–673; 742–743. fig. 1911.1

—— Der Makropode (*Macropodus opercularis* L.) Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 168–170; 267–269. 2 figs. 1911.2

Zimmermann, *E. A. W. von* (*translator*) P. Cavolini's . . . Abhandlungen über die Erzeugung der Fische und der Krebse. Aus dem Italiänischen übersetzt. Mit Anmerkungen herausgegeben von E. A. W. Zimmermann, etc. 1792. 8°. 1792.1

Zimmermann, *E. R.* Zu dem massenhaften Absterben von Fischbrut in den Neckarzeilen und Rheinsporen, etc. Allgem. Fischerei Zeitg., 1907, 32. Jahrg., 496–498. 1907.1

Zimmermann, *G. F.* Ostfrieslands Antheil an der Binnen-, Küsten und Hochseefischerei, mit besonderer Berücksichtigung der Betriebsresultate der Neuen Emder Häringsfischerei-Actien-Gesellschaft, etc. Emden, 1880. 21 p. 4°. 1880.1

Zimmermann, *H.* Auf dem Gronghi- (Seeaal-) Fang. Nerthus, Altona, 1903, **5**, 107–109. 1903.1

Zimmermann, *K. W.* Studien über Pigmentzellen. I. Ueber die Anordnung des Archiplasmas in den Pigmentzellen der Knochenfische. Arch. Mikr. Anat., 1893, **41**, 367–389. 2 pls. 1893.1

Zincone, *Antonio.* Osservazioni anatomiche su di alcune appendici tattili dei pesci. Rendic. Acad. Sci., Napoli, 1876, **15**, 182–193. 2 pls. 1876.1

Zindler, *Alfred. Rivulus ocellatus* Hensel. Wochenschr. Aquar.-Terrar. Kunde, 1912, 9. Jahrg., 710. 1912.1

—— Zucht und Pflege der Haplochilus spec. aus Cap Lopez. Wochenschr. Aquar.-Terrar. Kunde, 1914, 11. Jahrg., 103–104. fig. 1914.1

Zirzow, *Paul.* Vorrichtung zur Regenerierung des Wassers in Fischbehältern mittels ozonisierter Luft. D. R. Pat. Kl., 1906, 45. Heft, no. 169932. 2 p. pl. 1906.1

—— A new method of combatting fungus on fishes in captivity. Proc. 4. Intern. Fish. Congr. Washington. Bull. Bur. Fisheries 1908 (1910), **28**, pt. 2, 937–940. 1910.1

Zittel, *Karl Alfred von* [1839–1904] For biographical notices, *see* Pompečkj, J. F. Karl A. von Zittel. Palæontographica, 1904, **50**, 6. Lief., 1*–28*.—Also Osborn, H. F. Karl Alfred von Zittel. Science, 1904, n. s. **19**, 186–188.

—— Denkschrift auf Christian Erich Hermann von Meyer. München, 1870. 4°. 1870.1

—— Aus der Urzeit; Bilder aus der Schöpfungsgeschichte. 2. ed. Mün-

Zittel, *K. A.*
chen, 1875. 630 .p. illust. 12° (Naturkräfte, Bd. viii–ix) 1875.1

A popular treatise on palæontology, containing accounts of the ichthyic faunæ of successive eras. The first edition was published in 1872.

—— Ueber Ceratodus. Sitzber. Bayer. Akad. Wiss., 1886, **16**, 253–261. pl. 1886.1

—— Ueber vermeintliche Hautschilder fossiler Störe. Sitzber. Bayer. Akad. Wiss., 1886, **16**, 261–264. 1886.2

—— Handbuch der Paläontologie. I. Abtheilung. Paläozoologie. Band iii. Vertebrata (Pisces, Amphibia, Reptilia, Aves) München & Leipzig, 1887–90. 900 p. 719 figs. 1887.1

Review by A. S. Woodward in Geol. Mag., 1889, 3. dec. **6**, 125–130; 177–181; 227–232.

—— Traité de paléontologie. Tome iii. Vertebrata (Pisces, Amphibia, Reptilia, Aves) Traduit par Charles Barrois. Paris, 1893. 719 figs. 1893.1

Pisces, p. 5–330. 323 figs.

—— Grundzüge der Paläontologie. München & Berlin, 1895. 971 p. 2048 figs. 8°. 1895.1

Pisces, p. 510–603.

—— Palæontology and the biogenetic law. Nat. Science, 1895, **6**, 305–312. 1895.2

—— Fossil fishes in the British Museum. Nat. Science, 1896, **8**, 408–410. 1896.1

A review of the first three volumes of A. S. Woodward's "Catalogue of the fossil fishes in the British Museum."

—— Geschichte der Geologie und Paläontologie bis Ende des 19. Jahrhunderts. München, 1899. xi, 868 p. 8°. 1899.1

—— K. A. von Zittel's paläontologische Wandtafeln. Serie I. Fossile Tiere. Herausgegeben von Prof. Dr. K. A. von Zittel, fortgesetzt von Prof. Dr. J. F. Pompečkj. Stuttgart, 1900. 83 charts. 1900.1

Pisces, charts 34–38. Selachii und Ganoidei.

—— Text-book of palæontology. Translated and edited by Charles R. Eastman. Vol. ii. London & New York, 1902. viii, 283 p. 373 figs. 8°. 1902.1

Pisces, revised by A. S. Woodward, p. 1–114.

—— History of geology and palæontology to the end of the 19th century. Translated by Maria Ogilvie-Gordon. London & New York, 1908. 562 p. 8° (The contemporary science series) 1908.1

—— Grundzüge der Paläontologie (Paläozoologie) . . . neubearbeitet von F. Broili, E. Koken, M. Schlosser. II. Abteilung, Vertebrata. 2. Auflage. München & Berlin, 1911. 598 p. 749 figs. 8°. 1911.1

Pisces, p. 3–142.

Zittel, *Karl A. von,* & **Rohon,** *J. Victor.* Ueber Conodonten. Sitzber. Akad. Wiss. München, 1887, **16**, 108–136. 2 pls. 1887.1

Ziundorf, *Jakob.* Mitteilungen über die Baugrube des Offenbacher Hafens. Ein Beitrag zur geologischen und paläontologischen Kenntnis der Cyrenenmergelschichten im nord-östlichen Teile des Mainzer Beckens, nebst einem Fundbericht über bearbeitete Baumstämme aus prähistorischer Zeit. 37.–42. Ber. Offenbach. Ver. Nat., 1901, 87–146. 4 pls. & 3 figs. 1901.1

Zoéga, *F. L.* Pisciculture. Rapport fait à la société académique de l'Oise. Mém. Soc. Acad. Oise, 1859, **4**, 235–242. 1859.1

Zograf, *J. N.* *See* **Zograf,** *Nikolai Yurevich.*

Zograf, *Nikolaĭ Yurevich* [1851 —] Ueber den sogenannten Labyrinthapparat der Labyrinthfische (Labyrinthici) Biol. Centralbl., 1886, **5**, no. 22, 679–686. 1886.1

—— Beitrag zur Kenntnis der Organisation des Sterlets (*Acipenser ruthenus*) [Text in Russian] Moskau, 1887. 2 pls. & figs. 4°. 1887.1

—— Les données pour l'étude de l'organisation de l'esturgeon [Text in Russian] Moscou, 1887. 2 pls. & fig. 4°. 1887.2

—— Die embryonale Rückenflosse des Sterlets (*Acipenser ruthenus*) Biol. Centralbl., 1887, **7**, no. 17, 517–521. 1887.3

—— On some of the affinities between the Ganoidei, Chondrostei and other fishes. Nature, 1887, **37**, 70. 1887.4

—— Ueber die Zähne der Knorpel-Ganoiden. Biol. Centralbl., 1887, **7**, 178–183; 224. 1887.5

—— On the construction and purpose of the so-called labyrinthine apparatus of the labyrinthic fishes. Quart. Journ. Micr. Sci., 1888, n. s. **28**, 501–512. pl. 1888.1

—— L'aquiculture au Musée des Sciences Naturelles Appliquées de Moscou, avec une introduction de Jules de Guerne. Bull. Soc. Centr. Aquicult. Pêche, 1894, **6**, 106–110. 1894.1

—— An attempt to explain the origin of the fauna of the lakes of Russia in Europe [Text in Russian] Bull. Acad. Sci. St. Petersb., 1895, 5. ser. **3**, 173–190. map. 1895.1

—— La pêche et la pisciculture en Russie. Bull. Soc. Centr. Aquicult. Pêche, 1895, **7**. 1895.2

—— Essai d'explication de l'origine de la faune des lacs de la Russie d'Europe. Moscou, 1896. 1896.1

—— Note sur l'odontographie des Ganoidei Chondrostei. Ann. Sci. Nat. (*Zool.*), 1896, 8. sér. **1**, 197–219. 2 pls. Abstract in Congr. Zool., Leyden, vol. iii, p. 320–322. 1896.2

—— Einige interessante Daten zur Frage über die Abstammung des Teleskopfisches [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **4**, 109. 1901.1

—— Ueber die Lebensweise und systematische Stellung von *Comephorus baikalensis*. Tagebl. Intern. Zool. Congr., 1901, no. 8, p. 9. 1901.2

—— Uebersicht der letzten Ausgaben des Ministeriums für Agricultur und Stadts-Domänen über Fischereigewerbe [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **5**, 135–153. 1901.3

—— Zur Biologie der Lophobranchii nach den Angaben Dr. Duncker's [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **5**, 166–171. 1901.4

—— Aus dem Leben der Fische [Text in Russian] Žurn. Obšč. Lĭub. Komn. Rast., St. Petersb., 1902. 18 p. 1902.1

—— Einiges über die systematische Stellung und die Lebensweise des *Comephorus baikalensis* Pall. Verh. Intern. Zool. Congr. Berlin, 1902, 592–595. 1902.2

—— Fische aus Malakka und der Malakka-Strasse [Text in Russian] Izv. Obšč. Lĭub. Jest., Moskva, 1902, **98** (*Dnevn. Zool. Otd.*), **3**, no. 4, 43–44. 1902.3

Zograf, *Nikolaĭ Yurevich,* **Hindze,** *B. K.*, **Voronkov,** *N. V.*, **Bogojavlenkiĭ,** *N. V.*, **Chmelevskij,** *C. V.*, & **Gracianov,** *V. I. See* **Chmelevskij, Gracianov** & others.

Zograf, *Nikolaĭ Yurevich,* & **Kavraiskiĭ,** *T. T.* Lists and descriptions of the collection of fishes in the museum of the Imperial Moscow University [Text in Russian] Isvest. Univ. Moscow, 1889, **56**, pt. 1. 50 p. 1889.1

Zograth, *H.* [External characters and anatomy of *Acipenser ruthenus* L.] [Text in Russian] Trav. Soc. Nat. Moscou, 1887, **52**, pt. 3. 72 p. 2 pls. & figs. 1887.1

Zolotniskiĭ, *N. F.* Lebendiggebärende Fische [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **5**, 154–165. fig. 1901.1

—— Les mœurs du *Girardinus decemmaculatus*, poisson vivipare. Arch. Zool. Exper. Gén., 1901, 3. sér. **9**, lxv–lxxi. fig. 1901.2

—— Les poissons distinguent-ils les couleurs? Arch. Zool. Exper. Gén., 1901, 3. sér. **9**, i–v. 1901.3

—— Le poisson archer (*Toxotes jaculator*) en aquarium. Arch. Zool. Exper. Gén., 1902, 3. sér. **10**, lxxiv–lxxxiv. 1902.1

—— Der Schützenfisch (*Toxotes jaculator*) und sein Leben im Aquarium [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1902, **7**, 217–240. pl. 1902.2

—— Le sterlet en liberté et en aquarium [Extrait du journal Natur und Haus, Berlin, traduction de M. Delaval] Bull. Soc. Acclim. Paris, 1902, **49**, 387–392. 1902.3

—— I costumi di un pesce viviparo (*Girardinus decemmaculatus*) Riassunto. Acquic. Lombarda, Milano, 1903, **5**, 169–171. 1903.1

—— Die Fischzucht im Zimmer vor 25 Jahren und Heute [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim. Moskva, 1904, **2**, pt. 4, 12–19. 1904.1

—— Flundern im Aquarium [Text in Russian] Jestestv. Geogr., Moskva, 1906, **11**, pt. 8, 66–80. 1906.1

—— Die Fahaka (Tetrodon) und ihr Leben im Aquarium [Text in Russian] Akvarium, Moskva, 1908, pt. 2, 59–67; 99–106. 1908.1

Zouch, (*Rev.*) *Thomas.* The life of Izaak Walton, including notices of his contemporaries. York, 1790. 4°. 1790.1

Other editions: London, 1823. 93 p. 20 pls.
London, 1826. 8°.
London, 1830. 93 p. 4°.

Zouiev, *Basil.* Blenniorum duæ species ex museo academico descriptæ. Acta Acad. Petropol., 1779, **2**, 195–201. pl. 1779.1

—— Descriptio piscis non descripti qui pertinet ad genus Scarorum Forskalii [*Scarus maxilosus*] Acta Acad. Petropol., 1779, **1**, 229–232. fig. 1779.2

—— *Anarrhichas pantherinus*, nova species. Acta Acad. Petropol., 1781, **1**, 271–277. fig. 1781.1

—— Descriptio *Characis leucometopontes.* Nova Acta Acad. Petropol., 1786, **4**, 275. 1786.1

—— Echeneidis, nova species [*E. nateratoides*] Nova Acta Acad. Petropol., 1786, **4**, 279–283. pl. 1786.2

—— Fœtus *Squali singularis.* Nova Acta Acad. Petropol., 1787, **5**, 239–242. 1787.1

—— *Gymnotus albus*, nova species. Nova Acta Acad. Petropol., 1787, **5**, 269–273. pl. 1787.2

—— Bigarum Murænarum, novæ species [*Muræna fusca* et *M. alba*] Nova Acta Acad. Petropol., 1789, **7**, 296–301. figs. 1789.1

Zozhdestvensky, *E.*, & **Derjugin,** *K.* *See* **Derjugin** & **Zozhdestvensky.**

Zschiesche, *A.* Eizellen in der Haut von Macropoden. Zool. Anz., 1910, **36**, 294–298. 1910.1

Zschokke, *Fritz* [1860 —] On the worms parasitic on freshwater fishes. Arch. Biol., 1884, **5**. 1884.1

—— Parasitenfauna von *Trutta salar.* Basel, 1889. pl. 8°. 1889.1

—— Faunistische Studien an Gebirgsseen. Verh. Naturf. Ges. Basel, 1890, **9**, 1. Heft, 1–62. 1890.1

—— Die Parasiten unserer Süsswasserfische (In Zacharias, O. Die Tier- und Pflanzenwelt des Süsswassers. vol. ii, no. 5. 46 p. Leipzig, 1891) 1891.1

—— Die Fauna hochgelegener Gebirgsseen. Verh. Naturf. Ges. Basel, 1895, **11**, 1. Heft, 36–123. Also separate; Basel, 1895. 98 p. 8°. 1895.1

—— Sur les vers parasites dans les poissons d'eau douce. C. R. Soc. Helvèt. Sci. Nat., 78. sess., 1896, 149–150. 1896.1

—— Myxosporidien; genus Coregonus. Centralbl., Bakt. u. Parasitk., 1898, **23**. 1898.1

—— Die Tierwelt der Hochgebirgsseen. Denkschr. Schweiz. Ges. Naturw., 1900, **37**. 400 p. 8 pls. 1900.1

—— Marine Schmarotzer in Süsswasserfischen. Verh. Naturf. Ges. Basel, 1903, **16**, 118–157. pl. 1903.1

—— Der Lachs und seine Wanderung; populärer Vortrag. Stuttgart, [1905] 32 p. 1905.1

—— Uebersicht über das Vorkommen und die Verteilung der Fische, Amphibien, Reptilien und Säugetiere in der Schweiz. Basel, 1905. 1905.2

—— Die Tiefseefauna der Seen Mitteleuropas; eine geographisch-faunistische Studie. Leipzig, 1911. ii, 246 p. illust. 4°. 1911.1

—— Die Fische der Schweiz. Schweiz. Fischerei Zeitg., 1912, 20. Jahrg., 1–12; 34–41. 1912.1

Zuckerkandl, *Emil* [1849–1910] Ueber accessorische Nebennieren bei *Torpedo marmorata.* Anat. Hefte, 1906, **31**, 219–232. 2 pls. & 3 figs. 1906.1

Zürn, *E. S.* Einiges über den Karpfen und seine Naturgeschichte. Die Natur, 1900, 49. Jahrg., 63–64. 1900.1

Zugmayer, *Erich* [1879 —] Descriptions of four new cyprinoid fishes from High Asia. Ann. Mag. Nat. Hist., 1909, 8. ser. **4**, 432–435. 1909.1

—— Beiträge zur Ichthyologie von Zentral-Asien. Zool. Jahrb. (*Syst. Abth.*), 1910, **29**, 275–298. pl. 1910.1

Four new species are described of Schizothorax and Aspiorhynchus.

—— Leuchtorgane und Augen von Tiefseefischen. Nat. Wochenschr., 1910, **25**, 329–331. 1910.2

—— Diagnoses des poissons nouveaux provenant des campagnes du yacht "Princesse Alice" (1901 à 1910) Bull. Inst. Océanogr. Monaco, 1911, no. 193. 14 p. 1911.1

—— Poissons provenant des campagnes du yacht "Princesse Alice," 1901–1910. Résult. Campagn. Scient., Monaco, 1911, **35**, 1–159. 6 pls. & 48 figs. 1911.2

—— Eight new fishes from Baluchistan. Ann. Mag. Nat. Hist., 1912, 8. ser. **10**, 595–599. 1912.1

—— On a new genus of cyprinoid fishes [*Aspiopsis merzbacheri*, n. g., n. sp.] from High Asia. Ann. Mag. Nat. Hist., 1912, 8. ser. **9**, 682. 1912.2

—— Le crâne de *Gastrostomus bairdii* Gill et Ryder. Bull. Inst. Océanogr. Monaco, 1913, no. 254, 1–6. 2 figs. 1913.1

—— Diagnoses de stomiatidés nouveaux provenant des campagnes du yacht "Hirondelle II" (1911 et 1912) Bull. Inst. Océanogr. Monaco, 1913, no. 253, 1–7. 1913.2

—— Wissenschaftliche Ergebnisse der Reise von Dr. Erich Zugmayer in Balutschistan 1911. Die Fische von Balutschistan mit einleitenden Bemerkungen über die Fauna des Landes. Abh. K. Bayer. Akad. Wiss., math.-phys. Kl., 1913, **26**. 35 p. 1913.3

—— Wissenschaftliche Ergebnisse der Reise von Prof. Dr. G. Merzbacher im zentralen und östlichen Thian-Schan 1907–8. Fische. Abh. K. Bayer. Akad. Wiss., math.-phys. Kl., 1913, **26**, 4. Abth. 1–18. pl. 1913.4

—— Diagnoses de quelques poissons nouveaux provenant des campagnes du yacht "Hirondelle II" (1911–1913) Bull. Inst. Océanogr. Monaco, 1914, 4 p. 1914.1

Aleposomus, Lampadena, Gavialiceps, Zoarcites n. g., Regalecus, Cetostoma n. g.

Zuikov, *V. P.* Structure microscopique de la medulla oblongata chez *Lophius piscatorius* L.) [Text in Russian] Bull. Soc. Imp. Moscou, 1898, n. s. **11** (Protokol), 35–36. 1898.1

—— Die biologische Volga-Station und ihre Arbeiten über Fischparasiten [Text in Russian] Dnevn. Otd. Icht. Imp. R. Obšč. Acclim., Moskva, 1901, **4**, 104–108. 1901.1

Zuntz, *Nathan* [1847 —] Ueber den Stoffwechsel der Fische. Circul. Deutsch. Fischerei Ver., 1879, no. 3, 85–91. 1879.1

—— Ueber die Verdauung und den Stoffwechsel der Fische (nach Versuchen von Herrn Karl Knauthe) Arch. Anat. Physiol. (*Physiol. Abth.*), 1898, 149–154. 1898.1

—— Ein Respirationsapparat für Wasserthiere. Arch. Anat. Physiol. (*Physiol. Abth.*), 1901, 453–551. fig. 1901.1

—— Eine Methode zur Schätzung des Eiweiss- und Fettgehaltes im lebenden Thierkörper. Arch. Anat. Physiol. (*Physiol. Abth.*), 1903, 205–208. fig. 1903.1

—— Ueber den Winterschlaf der Tiere. Nat. Wochenschr., 1905, **20**, 145–148. 1905.1

—— Respiration und Stoffwechsel der Fische. Deutsche Med. Wochenschr., 1914, 40. Jahrg., 777. 1914.1

Abhängigkeit von Temperatur, von Körpergrösse, von Tierart.

—— Zur Kenntnis des Stoffwechsels und der Atmung von Wassertieren (Berlin. Physiol. Ges.) Berlin. Klin. Wochenschr., 1914, 51. Jahrg., 621–622. 1914.2

Abhängigkeit des Stoffwechsels von der Temperatur (van't Hoffsches Gesetz) und von der Grösse der Tiere.

Zuntz, *Nathan,* & **Crohnheim,** *W.* Die Bedeutung der Naturnahrung für die Ernährung der Teichfische. Neudamm, 1911. 1911.1

Zuntz, *Nathan,* & **Knauthe,** *Karl.* Bemerkungen zu den Fütterungsversuche des Herrn von Schrader auf Sunde, etc. Fischerei Zeitg., 1900, **3**. 1900.1

—— Vorschläge zur Karpfenfütterung in mageren Teichen. Fischerei Zeitg., 1900, **3**. 1900.2

Zur Mühlen, *Max von.* Die Bewirtschaftung unserer Binnengewässer. Balt. Wochenschr., Jurjev, 1908, 251–256. 1908.1

—— Die Fischerei im Spankau'schen See. Balt. Wochenschr., Jurjev, 1908, 219–221. 1908.2

—— Der Peipus und die Peipusmaräne. Allgem. Fischerei Zeitg., 1908, **33**, 41–44. 1908.3

—— Aus den Ländern der wunderbaren Fischfänge. Oesterr. Fischerei Zeitg., 1911, 8. Jahrg., 241. 1911.1

Beobachtung über eine Lachswanderung in Alaska.

—— Canton de Berne. Bull. Suisse Pêche Piscicult., 1911, **12**, 100. 1911.2

Abramis brama von 15 Pfund Gewicht aus dem Bieler See.

Zur Mühlen, *M.*

—— Canton de Neuchâtel. Bull. Suisse Pêche Piscicult., 1911, **12**, 153. 1911.3

Fischsterben durch Blitzschlag im See von Brenet (Neuenberger Jura)

—— Canton de Vaud. Bull. Suisse Pêche Piscicult., 1911, **12**, 69; 131. 1911.4

Einbürgerung von *Idus melanotus, Scardinius erythrophthalmus, Abramis brama, Gobio fluviatilis* im Joux See, und von *Thymallus vulgaris* in die Orbe.

—— Canton des Grisons. Bull. Suisse Pêche Piscicult., 1911, **12**, 170. 1911.5

Trutta lacustris von 107 cm Länge aus dem Silser See.

—— *Exocœtus volitans.* Nature, 1911, **87**, 335. 1911.6

—— Fiskar med "mål" i mun [Fische die sich Laute geben] Från Skog och Sjö, 1911, **4**, 236. 1911.7

—— Fiskarnas vård af sin afkomma. Från Skog och Sjö, 1911, **4**, 177. 1911.8

Referat zu Weber, M. Brutpflege einiger Fische aus Neu-Guinea.

—— Grosser Sandfelchen aus dem Bodensee. Allgem. Fischerei Zeitg., 1911, n. s. **26**, 518. 1911.9

—— Die Nase (le hotu) [*Chondrostoma nasus*] in Frankreich. Schweiz. Fischerei Zeitg., 1911, 19. Jahrg., 287–288. 1911.10

—— Notizen über die Fischfauna des Kantons Aargau. Schweiz. Fischerei Zeitg., 1911, 19. Jahrg., 167–171. 1911.11

—— Ostsiberiens fiskerier. Svensk Fiskeritidskr., 1911, **20**, 146–150. 1911.12

Konsularbericht über den Fang von *Oncorhynchus keta* und *O. gorbuscha* im Amur.

—— Le poisson-chat. Bull. Suisse Pêche Piscicult., 1911, **12**, 70. 1911.13

—— Raoul Pictet suspend la vie. Svensk Fiskeritidskr., 1911, **12**, 114–115. 1911.14

Experiments showed that fishes could live from 3 weeks to 2 months at a temperature of —20°. At a lower temperature (in the case of *Tinca vulgaris*) death occurred.

—— Seltener Fang. Deutsche Fischerei Zeitg., 1911, 34. Jahrg., 612. 1911.15

Notiz über den Fang von "Mugilchels" und Scorpæna.

—— Tabellen zur Bestimmung planktonischer Eier der Nordsee und benachbarter Gewässer (mit Ausschluss der Ostsee) Conseil Perm. Intern. Exploration de la Mer, Rapp. & Proc. Verb., 1911, **13**, appendix nos. 1 & 3. 1911.16

—— Ueber die Fruchtbarkeit des Karpfenrogners. Oesterr. Fischerei Zeitg., 1911, 8. Jahrg., 322–323. 1911.17

Referat über Untersuchungen von F. Staff im Okolnik Rybacki, Organ des galizischen Fischerei-Vereins.

—— Ueber Konservierung von Fischen. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 499–500; 529–530. 1911.18

—— Ueber Ortsgedächtnis bei Fischen. Schweiz. Fischerei Zeitg., 1911, 19. Jahrg., 107–108. 1911.19

—— Vom Aal (*Anguilla anguilla* L.) Schweiz. Fischerei Zeitg., 1911, 19. Jahrg., 206–207. 1911.20

—— Vom Gangfisch (*Coregonus exiguus* var. *nuesslini*) Schweiz. Fischerei Zeitg., 1911, 19. Jahrg., 320–322. 1911.21

—— Wandernde Fische. Bull. Mensuels, Ges. Luxemburg. Naturfreunde, 1911, n. s. 5. Jahrg., 134–135. 1911.22

Beobachtungen über *Anabas scandens* und seine Wanderungen.

—— Warum wir Fische angeln können. Schweiz. Fischerei Zeitg., 1911, 19. Jahrg., 173–175. 1911.23

—— Ein Wels-Albino. Allgem. Fischerei Zeitg., 1911, n. s. **26**, 517–518. 1911.24

—— Wiederkehr des Elbherings. Deutsche Fischerei Zeitg., 1911, 34. Jahrg., 102. 1911.25

—— Wirkung explosiver Geräusche von Motorbooten und Geschützen auf Fische. Deutsche Fischerei Zeitg., 1911, 34. Jahrg., 703–704; 726–727; 740. 1911.26

—— Zur Frage der Einbürgerung unserer Peipusmaräne in den Seen der Ostseeprovinzen. Jahrb. Abt. K. Russ. Ges. Fischzucht und Fischfang in Est-, Liv- und Kurland 1910 (1911), (*Livländsch Abth.*), 69–74. 1911.27

Zwimpfer, *L.* Die Ursachen der Abnahme der sogenannten Sempacher-Balchen und die Mittel zum Erhalt und Vermehrung des Fischereichthums des Sempachersees. Luzern, 1869. 2 p. fol. 1869.1

Zykoff or Zykov, *V. P.* *See* **Zuikov,** *V. P.*

II

LIST OF ANONYMOUS TITLES[1]

Anonymous. Der Aal als Wanderfisch. Deutsche Landw. Presse, 1876, 3. Jahrg., 10. Anon. 1

—— Der Aal [*Anguilla vulgaris*] Aus der Heimath (Rossmässler), 1864, 807–810. figs. Anon. 2

—— Der Aal geht aufs Land. Landw. Zeitg. nebst Anzeig. Kassel, 1880, 2. Jahrg., 730–732. Anon. 3

—— Ein Aal hat 9,000,000 Eier. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 2–3. Anon. 4

—— Aale in der oberen Aisch. Bayerische Fischerei Zeitg., 1880, 69–70. Anon. 5

—— Aale, welche Maifische angreifen. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 255. Anon. 6

—— Aalenes hermaphroditime. Nord. Tidsskr. Fiskeri, 1874, **1**, 90–92. Anon. 7

—— Aalens kjønsforhold. Nord. Tidsskr. Fiskeri, 1875, **2**, 188–192. figs. Anon. 8

—— Aalesund; beretning om fiskeriudstillingen i aalesund 1864. Afgiven af formanden i selskabet for aalesunds byes vel sagforer J. Thuesen. Christiania, 1864. 108 p. 8°. Anon. 9

—— Der Aalfang bei Comacchio. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 19–21. figs. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 11–12. Anon. 10

—— Der Aalfang bei Leba. Oesterr.-ungar. Fischerei Zeitg., 1878, 1. Jahrg., 320–321. Anon. 11

—— Aalzuchtung. Ausland, 1862, 35. Jahrg., 951–954. Anon. 12

—— Aanluiding van de plaatsen waar de meeste haring is gevangen, gedurende het laaste zesjarig tijdvak. Utrecht, 1862. 4°. Anon. 13

—— Eene Aanteekening betreffende de vermoedelijke afkomst van Willem Beukelsz, waaruit tevens zou blijken, dat het haringkaken reeds in't begin der XIV^e eeuw in gebruik was. De Navorscher, Amsterdam, 1870, 165, 438. Anon. 14

—— Ein Abenteuer beim Huchenfischen [*Salmo hucho*] Oesterr.-ungar. Fischerei-Zeitg., 1880, 1. Jahrg., 41–42. Anon. 15

—— Die Abnahme der Fische in Ungarn. Deutsche Fischerei Zeitg., 1879, **2**, 247–248. Anon. 16

—— About the gudgeon [*Gobio fluviatilis*] Fishing Gazette, 1880, **4**, 410–411. Anon. 17

—— An abridged statement of reports from district fishery boards and others. 30. Ann. Rept. Fishery Board Scotland, 1912, pt. 3, 245–278. Anon. 18

—— Acclimatisation der Forelle und des Lachses in Tasmanien. Aus der Natur, 1865, **34** (n. s. **22**), 32. Anon. 19

—— The acclimatisation of salmon in Otago. Nature, 1875, **11**, 209. Anon. 20

—— Acclimatisation von Salmen und Forellen in Australien. Zool. Garten, 1870, **11**, 129–132. Anon. 21

—— Acclimatisation von Salmen und Vögeln in Neu-Seeland. Zool. Garten, 1875, **16**, 114–115. Anon. 22

—— Acclimatisirung der Forelle in Tasmanien. Zool. Garten, 1875, **16**, 237. Anon. 23

—— Addition to list of fishes of Maryland. Rept. Comm. Fisheries Maryland, 1877, 57–94. Anon. 24

---

[1] Initial articles (" a," "an," "the," etc.) in English and other languages are disregarded in alphabetizing, and the titles are numbered serially for the purpose of reference in the Subject Index.

—— Additional reports relative to the hatching and planting of the Penobscot salmon. Rept. U. S. Fish Comm. 1872–73 (1874), Append. B., xvi–xvii; 380–384. Anon. 25

—— Additions to the list of fishes known to inhabit Narragansett bay, with remarks on rare specimens recently caught. 31. Ann. Rept. Comm. Inland Fish. Rhode Island, 1901, 57–59. Anon. 26

—— Aeussere Geschlechtsunterschiede an unseren Süsswasserfischen. Naturf. (Sklarek), 1877, **10**, 38–39. — Journ. Zool., 1875, **4**, 215. Anon. 27

—— The age and growth of a pike [*Esox lucius*] Fish. Gazette, 1877, 10. Anon. 28

—— The age and growth of fishes; the results of recent marine investigations. Scient. Amer. Suppl., 1909, **68**, 239. fig. Anon. 29

Translated from Prometheus.

—— Akklimatisation eines chinesischen Fisches in Frankreich. Natur (Müller), 1878, n. s. **4**, 424. Anon. 30

—— Akklimatisation von Karpfen in Amerika. Circul. Deutsch. Fischerei Ver., 1873, 238–241. Anon. 31

—— Almindelinge betragtninger over en deel av Fiske-Varenes Virkning, tilberedelse og behandling. Den Bergenske Borgerven, Bergen, 1767, 241–257. Anon. 32

Treats of preparation of fish.

—— Ein alter Karpfen [*Cyprinus carpio*] Aus der Natur, 1873, **62** (n. s. **50**), 331–332. Anon. 33

—— *Ambassis lala*. Gelber Zwergscheibenbarsch. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 390–391. fig. Anon. 34

—— American fish and how to catch them; a hand-book for fishing. By an old angler. New York, 1885. 95 p. 8°. Anon. 35

—— American fish-culture. Fish. Gazette, 1878, n. s. **2**, 171–172. Anon. 36

—— American fisheries. Fishing Gazette, 1878, n. s. **2**, 18; 27–28. Anon. 37

—— The American fisheries. Memorial of the Committee on Fisheries, appointed in Boston, on the American fisheries as affected by the treaty of Washington. February 9, 1872. House of Representatives. 42. Congress, 2. sess. Misc. Doc. no. 69, 1872. 6 p. 8°. Anon. 38

—— American ichthyology in 1878. Science News, 1879, **1**, 97–100. Anon. 39

—— American trout in Sussex. Speaker, London, 1899, **20**, 260–261. Anon. 40

—— Das amerikanische Beutelnetz. Nach den der kgl. norwegischen Regierung von ihren Commissären bei der Weltausstellung in Philadelphia, den Herren Joan Anderssen u. F. M. Wallem, erstatteten Berichten von W. Finn. Deutsch. Fischerei Zeitg., 1879, **2**, 285–286; 301–303. Anon. 41

—— Amerikanische Sardinen [*Clupea menhaden*] Ausland, 1874, 47. Jahrg., 658–659. Anon. 42

—— Analyse des saumures du hareng [*Clupea harengus*] et leur emploi en agriculture. La Ruche Scientifique, 1860, 1. année, 39. Anon. 43

—— Anarchie der Fischzucht. Oesterr.-ungar. Fischerei Zeitg., 1880, 106–107. Anon. 44

—— Ancient fish-banks near lake Ontario. Mag. Nat. Hist., 1829, **2**, 253–254. Anon. 45

—— Anfibi e pesci di Sardegna. Sassari, 1777. figs. 8°. Anon. 46

—— Die Angelfischerei. Nebst einem Anhange, die Krebsfischerei, das Fischstechen und der Fang mit der Schlinge. Leipzig, 1875. 8°. Anon. 47

—— The angler; containing a complete description of all fresh-water fish and the most approved methods of catching them; the best places for angling near London, together with useful hints to anglers in general. London, 1834. 16 p. 4°. Anon. 48

—— The angler. How, when and where to fish in river or in sea. London, 1871. 8°. Anon. 49

—— The angler's companion; being a complete practical guide to angling; with the properties, names and where to be found, of all river fish, etc.; to which is added Nobbes' Art of trolling. London, 1824. 32 p. 12°. Anon. 50

—— The angler's complete assistant; being an epitome of the whole art of angling; containing at one view, the harbours, seasons and depths for catching all sorts of fish usually angled for. 4. ed. London [n. d.] 4°. Anon. 51

The first edition, which is without date, was issued about 1780.

—— Angler's evenings. Papers by members of the Manchester Anglers' Association. Manchester & London, 1880. 8°. Anon. 52

—— The angler's guide to the rivers and lakes of north Wales, with the names of all the fishing stations, etc. Wrexham [1864] 7 p. 8°. Anon. 53

—— The angler's instructor, giving a description of each fish, and the rod and tackle in general use [by William Bailey] London, 1857. 8°. Anon. 54

A second edition was published in 1866 and a third in 1879.

—— The angler's note book and naturalist's record; a repertory of fact, inquiry and discussion on field sports and subjects of natural history. London, 1880. 4°. Anon. 55

—— Angling for eastern salmon (*Salmo salar*) in California waters. Forest & Stream, 1876, **5**, 390. Anon. 56

—— The animal heat of fishes. Nature, 1879, **21**, 156. Anon. 57

—— Anleitung betreffend die Herstellung von Fischwegen. Wien, 1891. 25 p. pl. 8°. Anon. 58

—— Anleitung über die Behandlung der angebrüteten Fischeier und der Fischbrut. Circul. Deutsch. Fischerei Ver., 1877, 21–23. — Zeitschr. Ver. Nass. Land.- u. Forstw., 1877, **59**, 61–63. Anon. 59

—— Another devil-fish story. Account of devil-fish (Ceratoptera) interfering with a submarine diver. Chicago Field, 1878, **10**, 181. Anon. 60

—— Die Anstalt für künstliche Fischzucht in Simbach a.-I. Mitth. über Fischereiwesen, München, 1877, 29–30. Anon. 61

—— L' apparato elettrico delle razze [Rajidæ] Annuar. Sci. Industrial. 1865 (1866), **2**, 306–307. Anon. 62

—— Arcachon, compte-rendu de la cérémonie de l'ouverture. Bordeaux, 1866. 8°. Anon. 63

—— Association de poissons [*Caranx trachurus*] et de méduses. Feuille Jeunes Naturalistes, 1895, **25**, 125. Anon. 64

—— Athmung der Fische. Aus der Natur, 1871, **58** (n. s. **46**), 735. Anon. 65

—— The Atlantic fisheries. Fishing Gazette, 1878, n. s. **2**, 434–435. Anon. 66

—— Atmung bei Grundeln (Cobitidinen) Schweiz. Fischerei-Zeitg., 1908, 16. Jahrg., 10–11. Anon. 67

—— The attempts to propagate salmon at the antipodes. Fish. Gazette, 1877, **22**, 3–4. Anon. 68

—— Aufzucht von Karpfen. Deutsch. Landw. Pressse, 1877, 4. Jahrg., 663–664. Anon. 69

—— Aus dem Werke des Herrn M. von dem Borne über die Verbreitung der Fische in Deutschland. Circul. Deutsch. Fischerei Ver., 1878, no. 6, 131–132. Anon. 70

—— Ein Ausflug an den Königssee. Fischbrutanstalt in St. Bartholomä. Bayerische Fischerei Zeitg., 1879, 4. Jahrg., 35–37. Anon. 71

—— Ausfuhr der wichtigsten Fischereiprodukte Norwegens. Zool. Garten, 1873, 14. Jahrg., 434. Anon. 72

—— Aussetzung californischer Lachse im Rhein. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 66–67. Anon. 73

—— Die Aussetzung einjähriger Karpfenbrut. Landw. Zeitschr. nebst Anz. Regsbez., Cassel, 1878, 354–356. Anon. 74

—— Aussetzung von Rheinlachsen in die Donau. Zool. Garten, 1876, 17. Jahrg., 449. Anon. 75

—— Australian brook trout. Fish. Gazette, 1877, no. 9, 5. Anon. 76

—— Australian naturalists [Note on Australian sea-horse] Intell. Observ., 1862, **1**, 469–470. Anon. 77

—— The autobiography of the late *Salmo salar*, Esq. comprising a narrative of the life, personal adventures, and death of a Tweed salmon, edited by a fisherman. London, 1867. 68 p. 8°. Anon. 78

Originally published in Macmillan's Magazine, **14**, 303; then reprinted as above, and afterwards included in the same author's "Flood, field and forest." *See* Rooper, G., 1867.1, *supra.*

—— Award of the Fishery Commission. Documents and proceedings of the Halifax Commission, 1877, and the treaty of Washington of May 8, 1871. Washington, 1878. 8°. Anon. 79

—— Az uszonyok újira Kinönek [Der Wiederersatz von Flossen] Term. Tud. Közl., 1870, **2**, 237. Anon. 80

—— Die Bachforelle in der Landwirtschaft. Schweiz. Landw. Zeitschr., 1909, **37**, 1236–1239. fig. Anon. 81

—— Eine badische Forellenzuchtanstalt. Die Forellenzuchtanstalt Ueberlingen. Schweiz. Fischerei Zeitg., 1907, 15. Jahrg., 205–208. 4 figs. Anon. 82

—— Le barbeau méridional (*Barbus méridionalis*) Cuvier. Bull. Soc. Hist. Nat. Toulouse, 1901, **34**, 12. Anon. 83

—— Die Basler Lachse. Ein Rückblick bis zum Jahre 1903 und ein Blick in die Zukunft bis zum Jahre 1917. Schweiz. Fischerei Zeitg., 1913, 21. Jahrg., 141–142. Anon. 84

—— Bass [*Labrax lineatus*] and bass fishing in America. Fishing Gazette, 1878, n. s. **2**, 341–342. Anon. 85

—— Batavia, de hoofdstad van Neêrlands O. Indiën, in derzelver gelegenheid, opkomst, geschiedenissen, koophandel, dieren en gewassern, beschreven. 4 vols. Amsterdam, 1782. pls. & maps. 4°. Anon. 86

Visschen van Java, vol. iv, p. 94–105.

—— Beiträge zur Landeskunde Oesterreichs unter der Enns. 4 vols. [in 2] (Verein für Vaterländische Geschichte, Statistik und Topographie) Wien, 1832–34. 8°. Anon. 87

Vol. i, no. 8. Ueber die Ausarbeitung einer Fauna . . . nebst einer systematischen Aufzählung der in diesem Lande vorkommenden Säugethiere, Reptilien und Fische, als Prodrom einer Fauna derselben, von L. J. Fitzinger.

—— Beiträge zur Naturkunde des Fürstenthums Lüneburg. Lüneburg, 1861. 8°. Anon. 88

Fische, p. 17. Not seen; title from Bosgoed's Bibliotheca Ichthyologica, 1874.

—— Ein Beitrag zur Naturgeschichte des Aals. Deutsche Landw. Presse, 1878, 5. Jahrg., 547–548. Anon. 89

—— Beobachtungen über die schottischen Häringszüge. Ausland, 1860, 33. Jahrg., 525–526. Anon. 90

—— Beobachtungen über einen Aal. Aus der Natur, 1866, **37** (n. s. **25**), 478–479. Anon. 91

—— Beobachtungen und Erfahrungen bei der künstlichen Erbrütung von Blaufelchen. Schweiz. Fischerei Zeitg., 1914, 22. Jahrg., 63–66. Anon. 92

—— Beretning om dem internationale Fiskeri-Udstilling i Bergen i aaret 1865, udgivet af udstillings-committeen. Bergen [1865] xxvi, 53 p. 28 col. pls. & 5 photogs. 4°. Anon. 93

—— Beretninger om Norges fiskerier i 1869. Christiania, 1871. 2 maps. 8°. Anon. 94

—— Bericht über den internationalen Fischereicongress in St. Petersburg vom 24 Februar bis 1 März 1902. Allgem. Fischerei Zeitg., 1902, 27. Jahrg., 263–266; 316–319. Anon. 95

—— Bericht über die internationale Fischereiausstellung in St. Petersburg, 1902. Mitth. Deutsch. Seefischerei Ver., 1902, 17. Jahrg., 471–591. 37 figs. Anon. 96

—— Berlin. Amtliche Berichte über die Austellung. Internationale Fischerei-Ausstellung, 1880. 5 pts. Berlin, 1881. 8°. Anon. 97

i. Fischzucht. xviii, 84 p. illust.
ii. Seefischerei, von H. Lindeman. 244 p. illust.
iii. Süsswasserfischerei, von A. Metzger. 89 p. illus..
iv. Fischereiproducte und Wasserthiere, von H. Dohrn. 95 p. illust.
v. Wissenschaftliche Abtheilung.

—— Beschädigung der Fische durch Frösche. Mitth. Osterlande, 1862, **16**, 1. Heft, 62–64. Anon. 98

—— Beschreibung der Seelerche [*Blennius galerita* L.] Berlin, Samml., 1775, **7**, 128–131. Anon. 99

—— Beschreibung des neuen elektrischen, vom Lieut. Paterson entdeckten Fisches. Mag. Phys. Naturgesch. (Lichtenberg & Voigt), 1790, **6**, 78–80. Anon. 100

—— Beskrifning öfver Bohusländske fiskarne. Vetensk. Vitterhets Samhäl. Handl., Götheborg., 1882, nos. 1–3. Anon. 101

—— Bijdragen tot de kennis der levenswijze en der voortplanting van de ansjovis enz., opgenomen in het verslag van den staat der Nederlandsche zeevischerijen over 1886. s'Gravenhage, 1887. 46 p. 4°. Anon. 102

—— Bilder-Atlas zur Zoologie der Fische, Lurche und Kriechthiere. Leipzig, 1898. 152 p. illust. 8°. Anon. 103

—— The billfish [*Belone truncata*] in fresh water. Amer. Naturalist, 1871, **5**, 439. Anon. 104

—— The black bass [*Grystes nigricans*] of Virginia. Fishing Gazette, 1878, n. s. **2**, 242–243. Anon. 105

—— Die Blutwärme der Fische. Natur (Müller), 1880, n. s. **6**, 311. Anon. 106

—— Boar-fish [*Capros aper*] at the Scilly isles. Zoologist, 1870, 2. ser. **5**, 2410. Anon. 107

—— Der böhmische Lachs — auf dem Aussterbezustand. Allgem. Fischerei Zeitg., München, 1900, **25**, 435–437. Anon. 108

—— Böhmische Lachse. Zool. Garten, 1871, 12. Jahrg., 158. Anon. 109

—— The book of fishes. Class Pisces. Published by the society for promoting Christian knowledge. London, 1834. illust. 24°. Anon. 110

—— Bream-fishing [*Abramis brama*] in the Yare. Zoologist, 1869, 2. ser. **4**, 1520. Anon. 111

—— British Association for the Advancement of Science. Handbook of Birmingham. Prepared for the members of the . . . Association 1886. Birmingham, 1886. xxi, 378 p. 8°. Anon. 112

Part iv. Zoology, edited by W. R. Hughes. Fishes and Mollusca, by G. S. Tye.

—— British Association for the Advancement of Science. Handbook to Liverpool and the neighborhood . . . edited by W. A. Herdman. Appendix. The Isle of Man. Liverpool, 1896. vi, 191 p. 8°. Anon. 113

The marine fauna of the district, and the work of the Liverpool Marine Biological Committee, by W. A. Herdman.
Sketch of the marine biology of the Isle of Man, by W. A. Herdman.

—— British fish and fisheries. London, 1849. 18°. Anon. 114

—— Bulletin statistique des pêches maritimes des pays du nord de l'Europe Conseil Perm. Intern. Explor. de la Mer, 1906, **1**, 1–262. 12 pls. Anon. 115

—— Bulletin statistique des pêches maritimes des pays du nord de l'Europe. Conseil Perm. Intern. Explor. de la Mer, Bull. Statist., 1908, **2**, 1–157. Anon. 116

—— A calculation of the state of the cod and whale fisheries belonging to Massachusetts in 1763; copied from a paper published in 1764. Coll. Mass. Hist. Soc., 1802, **8**, 202–203. Anon. 117

A statistical table, less than a page in length.

—— Der californische Lachs [*Oncorhynchus quinnat*] Oesterr.-ungar. Agricult.-Zeitg., Wien, 1879, 10. Jahrg., 291. Anon. 118

—— Capture of a devil-fish [Ceratoptera] Chicago Field, 1879, **10**, 395. Anon. 119

—— Carpe [*Cyprinus carpio*] atteinte d'une énorme tumeur fibreuse de l'abdomen. Journ. Zool. (Gervais), 1876, **5**, 466. Anon. 120

—— Catalog der Ausstellung von Gerätschaften und Produkten der See- und Binnenfischerei, in der neuen Markthalle am Schiffbauerdam zu Berlin, eröffnet am 25 März 1873. Berlin, 1873. 60 p. 8°. Anon. 121

—— Catalog over de til den internationale Fiskeri-Udstilling i Bergen 1865 indsendte Gjenstande. Bergen, 1865. 215 p. 8°. Anon. 122

—— Catalogo generale sezione industriale italiana. Roma, 1883. 530 p. 8°. Anon. 123

Gruppo viii, Pesca e piscicultura, p. 405–414.

—— Catalogue of fish in Ohio. Ohio State Fish Commission, 1875–76, **1**, 42–56. Anon. 124

—— Catalogus der inzendingen uit Nederland naar de internationale tentoonstelling van visscherij-voortbrengselen, gereedschappen enz., te Bergen in Noorwegen. Rotterdam, 1865. 8°. Anon. 125

—— Catalogus der tentoonstelling van visscherij-gereedschappen en voortbrengselen van de visscherij, geopend van 1 tot 31 Julij, 1867. 's Gravenhage, 1867. 72 p. 8°. Anon. 126

—— Catalogus van de boekerij der Vereeniging tot Bevordering der inlandsche ichthyologie voor het jaar 1847. Arnheim, 1847. 8°. Anon. 127

—— Catalogus van de tentoonstelling van visscherij-gereedschappen, gehouden door het Collegie voor de Zeevisscherijen, met medewerking van de vereeniging voor volksvlijt, in het lokaal dier vereeniging te Amsterdam, geopend 17 September 1861. Leyden, 1861. 86 p. 8°. Anon. 128

—— Catfish [Amiurus] in California. Chicago Field, 1879, **11**, 196. Anon. 129

—— Ceratodus, its place in the system of fishes. Amer. Journ. Sci., 1871, 3. ser. **1**, 387–388. Anon. 130

—— Changes in colour among tropical fishes. Nature, 1909, **91**, 174. 2 figs. Anon. 131

—— Chemical composition of salmon. Amer. Naturalist, 1873, **7**, 372. Anon. 132

—— Chicago. World's Columbian Exposition, 1893. Official catalogue of the British section. xlii, 544 p. London, 1893. 8°. Anon. 133

Sea-fisheries, by E. R. Lankester.

—— China. Statistical Department. Special catalogue of Chinese collection . . . for the International Fisheries Exhibition, London, 1883. Shanghai, 1883. 4°. Anon. 134

—— Chinese fish; a collection of 246 water-color drawings by a native artist, on rice-paper. 2 vols. [n. p., 1844?] fol. Anon. 135

Unpublished drawings in the Fearing Collection, Harvard College Library. Similar drawings by native artists, painted for John Reeves, *q. v.*, are preserved in the library of the British Museum of Natural History.

—— The Chinese repository. 2 vols. Canton, 1832–51. 4°. Anon. 136

Fishes, pt. iii, p. 462. iv, p. 46. vi, p. 68; 411. viii, p. 89.

—— The collection of definite data respecting the times of arrival and departure of various food-fishes, and the statistics of exportation. 30. Ann. Rept. Comm. Inland Fish. Rhode Island, 1900, 9–11. *Ibid.*, 31. Ann. Rept., 1901, 10–11. *Ibid.*, 32. Ann. Rept., 1902, 11–13. *Ibid.*, 33. Ann. Rept., 1903, 16. Anon. 137

—— Collection of papers dealing with the fishery survey of the bay of Bengal, reprinted with an illustrative chart under orders of the Government of Bengal. Calcutta, 1911. 104 p. chart. 8°. Anon. 138

—— Commercial fisheries of the interior waters of the state. 1. Ann. Rept. Comm. Fish., Game & Forests New York 1895 (1896), 118–120. Anon. 139

—— The commercial fishes of Canadian dominion. Fishing Gazette, 1878, n. s. **2**, 567–568. Anon. 140

—— Conger eels in the Thames. Zoologist, 1869, 2. ser. **4**, 1520. Anon. 141

—— Conseil Permanent International pour l'Exploration de la Mer. Bulletin statistique des pêches maritimes des pays du nord de l'Europe. Vol. vi, pour l'année 1909. Copenhague, 1912. 100 p. 8°. Anon. 142

—— Conseil Permanent International pour l'Exploration de la Mer. Publications de circonstance no. 3 (édition anglaise) The literature of the ten principal food-fishes of the North sea in the form of compendious monographs. Copenhague, 1903. 107 p. 8°. Anon. 143

—— La conservation des produits de la pêche destinés à alimentation. Rev. Maritime, Paris, 1906, **168**, 529–591. Anon. 144

—— Considérations sur les espèces de saumons et de truites de la Grande-Bretagne. Bull. Soc. Acclim. Paris, 1869, 2. sér. **6**, 269–271. Anon. 145

—— A contribution to the natural history of the herring. Nature, 1876, **14**, 352. Anon. 146

—— Contributions to Canadian biology, being studies from the marine biological stations of Canada, 1906–1910. Ottawa, 1912. 305 p. illust. 8°. Anon. 147

—— The Coregoni. Their natural history, native waters, economic value and implements connected with their production. Forest & Stream, 1877, **8**, 439–440. *Ibid.*, 1877, **9**, 3–4. Anon. 148

—— Dauer der elektrischen Entladung beim Zitterfisch. Naturf. (Sklarek), 1871, 4. Jahrg., 426. Anon. 149

—— Dauer des Lebens der Fische ausserhalb des Wassers. Aus der Natur, 1865, **34** (n. s. **22**), 831. Anon. 150

—— De la possibilité d'acclimater dans les eaux de la marine la famille des salmonés et particulièrement des truites. Bull. Soc. Acclim. Paris, 1863, **10**, 258–260. Anon. 151

—— The deal fish [*Trachypterus arcticus*] near Whitby. Sci. Gossip, 1880, **16**, 88. Anon. 152

Identified as *Regalecus banksii* by T. Southwell. *Ibid.*, 116.

—— Death of fishes in the sea during the monsoon. Ann. Mag. Nat. Hist., 1862, 3. ser. **10**, 320. Anon. 153

—— The deep-sea fishes of the "Talisman." Nature, 1884, **29**, 483–485. 2 figs. Anon. 154

—— Description du poisson nommé lune ou mole, peché à Brest. Journ. Physique (Rozier), **16**, 58–60. Anon. 155

—— Description of the *Atherina menidia*. Coll. Mass. Hist. Soc., 1797, **3**, 102. Anon. 156

—— A description of the river Thames . . . ; to which is added a brief description of those fish with their seasons, spawning-times, etc. that are caught in the Thames or sold in London. London, 1758. 8°. Anon. 157

—— Descriptive catalogue of the fossil organic remains of Reptilia and Pisces contained in the Museum of the Royal College of Surgeons of England. London, 1854. xix, 184 p., 8°. Anon. 158

—— Descriptive notice of *Salmo alpinus* [*Salmo salvelinus*] Mag. Nat. Hist., 1832, **5**, 316–318. Anon. 159

—— Deutschland's Beteiligung an der internationale Meeresforschung. Deutsch. Fischerei Zeitg., 1904, 28. Jahrg. Anon. 160

—— Deutsch-Ost-Afrika. Bd. iii. Fische von G. Pfeffer. Berlin, 1896. xviii, 72 p. illust. 8°. Anon. 161

—— Dictionnaire de la pêche fluviale. Paris, 1829. 12°. Anon. 162

—— Dictionnaire de toutes les espèces de pêches. Paris, 1796. 336 p. 8°. Anon. 163

—— Dictionnaire théorique et pratique de chasse et pêche. 2 vols. Paris, 1769. 12°. Anon. 164

An anonymous work, attributed to Delisle de Sales, and derived for the most part from the ancient authors, with an improved system of ichthyology, borrowed from Buffon.

—— Differences between young and adult fishes. Amer. Naturalist, 1871, **5**, 175–176. Anon. 165

—— The diminution of food fishes. Amer. Naturalist, 1873, **7**, 423–425. Anon. 166

—— A Diodon vagy golyóalaku hal, mint a czápa gyilkosa. Term. Tud. Közl., 1876, **8**, 119. Anon. 167

—— Discovery of a new species of fish of the genus Acrolepis, in the Millstone grit of Yorkshire. Geol. Mag., 1874, 2. dec. **1**, 192. Anon. 168

—— Discussion of fish-cultural conditions at Forest park, St. Louis, with special reference to the propagation of black bass. Trans. Amer. Fisheries Soc. 1911 (1912), 307–318. Anon. 169

—— Dissertation sur la pêche, sur la population et l'âge du poisson [n. p.] 1787. 16 p. 4°. Anon. 170

—— The distribution and migrations of the food-fishes. Rept. Fishery Board Scotland, 1903, **21**, pt. 3, 40–77. Anon. 171

—— Dundee. University College. Studies from the Museum of Zoology in University College . . . edited by D'A. W. Thompson. Dundee, 1888–90. 4°. Anon. 172

Part vi. On the structure of *Trachypterus arcticus* (the northern ribbon-fish) by A. Meek. 24 p. illust. 1890.

—— Les écailles de poissons. La Nature, 1874, **2**, 37–38. fig. Anon. 173

—— Eels and eelpots in Norway, translated from the Danish by Hermann Jacobson. Bull. U. S. Fish Comm. 1885, **5**, 306. Anon. 174

—— Eine eigenthümliche Fortbewegungsweise verschiedener Fische. Natur (Müller), 1873, **22**, 392. Anon. 175

—— Eigenthümlichkeiten der Fische während ihrer Laichzeit. Circul. Deutsch. Fischerei-Ver. 1874 (1875), 33–34. — Ausland, 1873, **46**, 678–679. Anon. 176

—— Einfluss der Blindung der Augen auf die Farbe einiger Fische. Naturf. (Sklarek), 1874, 7. Jahrg., 428. Anon. 177

—— Einfluss der Nahrung des Herings auf seinen Werth als Handelswaare. Aus der Natur, 1868, **46** (n. s. **34**), 661–665. Anon. 178

—— Eingewöhnung und Fortpflanzung des Salmes (*Salmo salar*) in Süsswasserseen. Zool. Garten, 1869, 10. Jahrg., 380–381. Anon. 179

—— Einige Beobachtungen über Sinnesorgane bei Fischen. Wochenschr. Aquar.-Terrar. Kunde, 1910, 7. Jahrg., 195. Anon. 180

—— Einige praktische Fischereifragen im Licht der gewonnenen Resultate.

Cons. Perm. Intern. Explor. de la Mer, Rapp., 1909, **10** *A*, 137–159. Anon. 181

—— Einwirkung von Seewasser auf Süsswasserfische. Zool. Garten., 1880, 21. Jahrg., 286. Anon. 182

—— Electric fishes. Sci. Gossip 1866 (1867), 268–270. figs. Anon. 183

—— Die elektrische Entladung des Zitterrochens. Naturf. (Sklarek), 1877, 10. Jahrg., 136. Anon. 184

—— Elektrische Schläge, erhalten von sogenannten pseudoelektrischen Organen. Naturf. (Sklarek), 1877, 10. Jahrg., 475. Anon. 185

—— Den elektriske Aal eller Barryg (*Gymnotus electricus*) Tidsskr. Popul. Fremstilling. Naturvidensk., 1879, **26**, 384–395. Anon. 186

—— Elements of natural history, being an introduction to the Systema Naturæ of Linnæus, comprising the characters of the whole genera and most remarkable species. 2 vols. London, 1801. 8°. Anon. 187

—— Un ennemi peu connu des jeunes poissons. Bull. Soc. Acclim. Paris, 1873, 2. sér. **10**, 660–661. Anon. 188

—— Entdeckung von Giftorganen bei Fischen. Carinthia, 1865, 55. Jahrg., 32–33. Anon. 189

—— Entwickelung der Eier von Seefischen. Ausland, 1868, 41. Jahrg., 912. Anon. 190

—— Die Entwickelung der Flundern. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 42–44. Anon. 191

—— Die Entwicklung des Rochen und Stechrochen. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 103–104. fig. Anon. 192

—— Eszleletek a halak ívása körűl. Term. Tud. Közl., 1869, **1**, 392–393. Anon. 193

—— Den europaeiske Malle (*Silurus glanis*) Fra alle Lande, 1868, **7**, 221–223. fig. Anon. 194

—— Exposition Internationale Bruxelles-Tervueren. Forêts, chasse et pêche. Section belge. 1897. Bruxelles, 1897. 8°. Anon. 195

—— Exposition internationale d'océanographie des pêches maritimes et des produits de la mer. Paris [1906] 24 p. 8°. Anon. 196

Head title reads Exposition coloniale de Marseille en 1906.

—— Exposition maritime internationale du Hâvre. L'Illustration, 1868, nos. 1319–1322. Anon. 197

—— L'exposition maritime internationale du Havre; catalogue officiel publié par la direction de l'exposition et rédigé par A. Blondin: manuel de la marine et du commerce maritime. Paris, 1868. 8°. Anon. 198

—— Exposition universelle de 1878 de Paris. Rapport sur les poissons, crustacés et mollusques, par L. Vaillant. Paris, 1880. 8°. Anon. 199

—— External gills in ganoid fishes [Polypterus] Amer. Naturalist, 1871, **4**, 127. Anon. 200

—— Der Fang der Alsen, *Alburnus lucidus*. Zool. Garten, 1871, 12. Jahrg., 251. Anon. 201

—— Les fanons branchiaux du squale pélerin [*Selache maxima*] Jorn. Sci. Math. Phys. Nat. Lisboa, 1879, **6**, 71–73. Anon. 202

—— Die Farbe der Fische. Schweiz. Fischerei Zeitg., 1906, **14**, 162–164. Anon. 203

—— Farbenänderungen bei den Fischen. Naturf. (Sklarek), 1871, 4. Jahrg., 310–311. Anon. 204

—— Fecundity of salmon. Fishing Gazette, 1877, 10. Anon. 205

—— Die feinere Struktur der elektrischen Organe der Fische. Naturf. (Sklarek), 1875, 8. Jahrg., 15–17. Anon. 206

—— Festschrifte. For titles under this head, memorial and anniversary volumes, etc., *see* under the names of authors in whose honor or memory they are dedicated.

—— Figure du "moine," poisson monstrueux pêché à Cette. Hist. Acad. Sci. Paris, 1759, 40–41. pls. Anon. 208

—— Final report of the . . . survey of Nebraska and portions of the adjacent territories, etc. Washington, 1872. 264 p. 11 pls., figs., & map. 8°. Anon. 209

Part ii. Palæontology; Report on the palæontology of eastern Nebraska, by F. B. Meek. Descriptions of fossil fishes from the Upper Coal Measures, by O. St. John.

—— Ein Fisch, der lebende Junge gebärt (*Cymatogaster aggregatus*) Oesterr.-ungar. Fischerei Zeitg., 1880, 14. figs. Anon. 210

—— Ein Fisch mit einen Giftapparat [*Thalassophryne reticulata*] Aus der Natur, 1864, **29** (n. s. **17**), 511. Anon. 211

—— Die Fischarmuth unserer Binnenwässer. Landwirth, 1879, 15. Jahrg., 107. Anon. 212

—— Fischbuch; vollständiges Fischbuch, enthaltend gründliche Anweisung, Fische in Teichen und Gewässern gehörig zu behandeln; über Fischteiche und Fischhaltungen; über Kunst- und Lustfischerei und wichtige Mittheilungen über Karpfen und Krebse. Quedlinburg, 1824. 8°. Anon. 213

—— Fische als Dünger. Deutsche Fischerei Zeitg., 1880, 3. Jahrg., 509. Anon. 214

—— Die Fische des Ambyiacu-Flusses. Ausland, 1873, 46. Jahrg., 40. Anon. 215

—— Die Fische des uralo-caspisch-euxinischen Bassins. Ausland, 1877, 50. Jahrg., 40. Anon. 216

—— Die Fische im Amazonenstrom. Aus der Natur, 1866, **36** (n. s. **24**), 351–352. Anon. 217

—— Fische im Mummelsee. Wochenbl. Landw. Ver. Baden, 1865, 19. Anon. 218

—— Die Fische Palästina's. Ausland, 1869, 42. Jahrg., 872–876. pl. Anon. 219

—— Die Fische unserer Gewässer. Neujahrsstücke Zürich Naturf. Ges., 1847–48. pl. Anon. 220

—— Die Fischerei der Pfahlbauer. Schweiz. Fischerei Zeitg., 1914, 22. Jahrg., 41–46. Anon. 221

—— Fischereiverhältnisse im Kanton Baselland 1833–1914. Schweiz. Fischerei Zeitg., 1915, 23. Jahrg., 42–48; 85–87. Anon. 222

—— Fischfang und Fischzucht im russischen Nordwesten (Gouvernements Kovno, Wilna und Grodno) Berichte der Expedition von 1904, organisiert von der Abteilung für Ichthyologie der k. Russ. Gesellschaft für Akklimatisation von Pflanzen und Tieren [Text in Russian] Arb. Ges. Akklim., St. Petersb., 1907. 21 pls. & 38 figs. 8°. Anon. 223

—— Fischfauna des Kantons Graubünden. Schweiz. Fischerei Zeitg., 1896, **14**, 13–15; 31–32; 41–42. Anon. 224

—— Fischnester. Ausland, 1860, 33. Jahrg., 96. Anon. 225

—— Ein Fischregen. Ausland, 1861, 34. Jahrg., 792. Anon. 226

—— Ein Fischregen in Canada. Ausland, 1878, 51. Jahrg., 320. Anon. 227

—— Der Fischreichthum der Tiefsee. Ausland, 1879, 52. Jahrg., 420. Anon. 228

—— Fischreichthum des Amazonenstromes. Aus der Natur, 1868, **45** (n. s. **33**), 331. Anon. 229

—— Die Fischzuchtanstalten der Schweiz. IV. Anstalt St. Maria in Promenthoux bei Nyon. Schweiz. Fischerei Zeitg., 1907, 15. Jahrg., 283–290. Anon. 230

—— Fish as food. Builder, London, 1866, **24**, 704. Anon. 231

—— Fish industry for India. Indian Trade Journal, June 1909, 101–103. Anon. 232

—— Fish in Washington territory. Chicago Field, 1879, **12**, 180. Anon. 233

—— The fish-culture exhibition at Arcachon, near Bordeaux. Illust. London News, 1866, no. 1384, 242; no. 1386, 295. pl. Anon. 234

—— Fishes as surgeons. Amer. Naturalist, 1872, **6**, 48. Anon. 235

—— Fishes killed at Scilly by the late gale. Zoologist, 1874, 2. ser. **9**, 4000. Anon. 236

—— Fishes of the Ambyiacu river. Amer. Naturalist, 1871, **5**, 378–379. Anon. 237

—— Fishes taken in the Waquoit weir, April 18 to June 18, 1871. 6. Ann. Rept. Mass. Comm. Inland Fisheries, Boston, 1872, 41–54. Anon. 238

—— Fish-ponds and pond fish. Saturday Review, 1872, 465–467. Anon. 239

—— Die fliegenden Fische. Aus der Natur, 1870, **51** (n. s. **39**), 96. *Ibid.*, **57** (n. s. **45**), 1871, 528. Anon. 240

—— Flyvefiskens Flugt. Tidsskr. Popul. Fremstilling. Naturvidensk., 1878, 5. ser. **5**, 420–437. Anon. 241

—— Földön mászó halak [Auf dem Lande kriechende Fische] Term. Tud. Közl., 1876, **8**, 20. Anon. 242

—— Forellenzucht. Schweiz. Landwirtsch. Zeitschr., 1912, 40. Jahrg., 493–496. fig. Anon. 243

—— Forêts, chasse et pêche; pêche, compilée par la division . . . du Département fédéral de l'intérieur (In Bibliographie nationale suisse; répertoire méthodique de ce qui a été publié sur la Suisse et ses habitants. viii, 57 p. Berne, 1898. 8°) Anon. 244

—— Fortpflanzung der Aale. Natur (Müller), 1873, **22**, 32. — Ausland, 1876, 49. Jahrg., 880. Anon. 245

—— Die Fortpflanzung des Aales. Aus der Heimath (Rossmässler), 1859, 781–784. — Natur (Müller), 1875, n. s. **1**, 399–400. Anon. 246

—— Die Fortschritte der Mikrologie im Jahre 1909. Jahrb. Mikr., 1910, 1. Jahrg., 58–68. Anon. 247

Ueber die Nahrung der Fische.

—— Forwood's historical and descriptive narrative of the Mammoth cave of Kentucky; with full scientific details of the eyeless fishes [n. p.] 1870. 12 illust. 8°. Anon. 248

—— Freshwater sticklebacks in seawater aquarium. Sci. Gossip 1867 (1868), 38–39. Anon. 249

—— Die Funktion der Kiemenspalten. Gaea, 1877, **13**, 186–187. Anon. 250

—— Ein gefrässiger Fisch [*Serrasalmo piraya*] Natur, 1877, n. s. **3**, 307–308. Anon. 251

—— Gefrässigkeit eines Haifisches. Ausland, 1860, 33. Jahrg., 936. Anon. 252

—— Die Geheimnisse der künstliche Fischzucht. Naumburg, 1858. 16°. Anon. 253

—— Geht der Aal in Erbsenfelder? Deutsch Fischerei Zeitg., 1879, 2. Jahrg., 357–358. Anon. 254

—— General treatise of the dominion of the sea, and a compleat body of the sea-laws, including those of Oleron, Wisby and the Hanze towns; with several discourses concerning the jurisdiction of the Admiralty, third edition, with additions. London [n. d.] 4°. Anon. 255

—— Generation of eels. Amer. Naturalist, 1873, **7**, 492. Anon. 256

—— Le genre Ceratodus retrouvé vivant en Australie. Journ. Zool. (Gervais), 1872, **1**, 176–178. 2 pls. Anon. 257

—— Die geographische Verbreitung der elektrischen Fische. Petermann's Geogr. Mitth., 1856, 81–82. Anon. 258

—— Die geographische Verbreitung der Fische. Naturforscher (Sklarek), 1875, 8. Jahrg., 221–223. Anon. 259

—— Die geographische Verbreitung der Meerfische. Aus der Natur, 1873, **62** (n. s. **50**), 333–340. Anon. 260

—— Geology of Wisconsin, survey of 1873–1879. 4 vols. & 3 atlases. Madison, 1877–83. 8° & fol. Anon. 261

Catalogue of the cold-blooded vertebrates of Wisconsin, by P. R. Hoy. Vol. i, part 2, chap. 9.

—— Die Geräusche und Töne der Fische. Naturf. (Sklarek), 1873, 6. Jahrg., 34–35. Anon. 262

—— Geschlechtsunterschiede bei den Scheibenbarschen [Mesogonistius] Prakt. Zierfischzüchter, 1910, 54–56. Anon. 263

—— Giftige Fische am Kap der Guten Hoffnung. Petermann's Geogr. Mitth., 1858, 256. Anon. 264

—— Die giftigen Fische. Aus der Natur, 1862, **19** (n. s. **7**), 85–91; 100–108. Anon. 265

—— Giftredskaber hos fiske. Tidsskr. Popul. Fremstilling. Naturvidensk., 1873, 4. ser. **5**, 82–84. Anon. 266

—— The golden trout of Mt. Whitney. Science, 1904, n. s. **20**, 61. Anon. 267

—— Gossip about fish. Intell. Observ. 1867, **10**, 99–106. Anon. 268

—— The great fisheries of the world described and illustrated. London [1878] sm. 8°. illust. Anon. 269

Published in 1876 with the title, "The treasures of the deep."

—— Great International Fisheries Exhibition, London, 1883. Official catalogue. London, 1883. 8°. Anon. 270

—— Grolier Club, New York. A catalogue of angling books, etc. New York, 1911. *See* Fearing, D. B., 1911.1, *supra.* Anon. 271

—— Grolier Club, New York. Chronological hand-list of various editions of "The complete angler" by I. Walton and C. Cotton, with a supplement embracing other writings of Walton, Cotton, etc., 1593–1893. New York, 1893. 26 p. 12°. Anon. 272

—— Die grosse Maräne, ein Fisch der Ostsee und der Haffe. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 60–61. Anon. 273

—— Haaievel [*Catulus squalus* = *Scyllium stellare*] Kennis en Kunst (Winkler), 1868, p. 166. Anon. 274

—— Habits of eels. Fish. Gazette, 1878, **2**, 343. Anon. 275

—— Der Häring. Aus der Natur, 1861, **17** (n. s. **5**), 475–479; 487–496. Anon. 276

—— Häring. Die natürliche Geschichte des Härings. Hamburg. Magaz., 1759, **26**, 563–583. Anon. 277

—— Haifische aus grosser Seetiefe. Ausland, 1869, 42. Jahrg., 216. Anon. 278

—— Haifische im adriatischen Meere. Zool. Garten, 1873, 14. Jahrg., 155. *Ibid.*, 1880, 21. Jahrg., 316. Anon. 279

—— Haifischfang auf der Insel Aitutaki. Petermann's Geogr. Mitth., 1867, 149–150. Anon. 280

—— Haifischfang im nördlichen Eismeer. Ausland, 1875, 48. Jahrg., 282–284. Anon. 281

—— Half-hours in the deep. The nature and wealth of the sea: its surface, forces, and inhabitants; amphibia, fishes and molluscs [n. p., n. d.] 8°. Anon. 282

—— Halibut as a food. Sanit. Record, London, 1877, **6**, 348. Anon. 283

—— Halieutics by modern writers [A collection of articles taken from various English and American periodicals, from *circa* 1819–1883, and bound together] 3 vols. illust. 8°. Anon. 284

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—— Handleiding tot de kunstmatige vermenigvuldiging van visschen, uitgegeven op last van Z. M. den Koning (der Nederlanden) en onder toezigt van de commissie voor de vischfokkerij. s'Gravenhage, 1853. 27 p. pl. 8°. Anon. 285

Translated into German under the title of "Anleitung zur künstlichen Vermehrung der Fische." Hessische landwirthsch. Zeitschrift, Darmstadt, 1854.

—— Haring en haringvisscherij. Alg. Visscherij-Courant, 1871, no. 45. Anon. 286

—— Have fish a memory? A chapter in the evolution of the brain. Natural Sci., 1897, **10**, 118–121. Anon. 287

—— Heavy salmon. Zoologist, 1876, 2. ser. **11**, 4767–4768. Anon. 288

—— Der Hering an der pommerschen Küste. Aus der Natur, 1874, **27** (n. s. **15**), 102–106; 123–127; 134–136. Anon. 289

—— Het nest van den stekelbaars (Gasterosteus] Kennis en Kunst (Winkler), 1868, 387–388. fig. Anon. 290

—— Hints to travelers. Edited by a committee of council of the Royal Geographical Society. 4 ed., edited by F. Galton, etc. London, 1889. xii, 340 p. illust. 8°. Anon. 291

Reptiles and fishes, by O. Salvin.

—— Histoire des pêches, des découvertes et des établissemens des hollandois dans les mers du Nord. Ouvrage traduit du Hollandois par B. de Reste. Avec des notes, [28] cartes et figures. 3 vols. Paris, 1799. 8°. Anon. 292

—— Histoire naturelle des principales productions de l'Europe méridionale et principalement celles des environs de Nice et des Alpes maritimes. 5 vols. Paris, 1826–27. 8°. Anon. 293

Poissons, vol. v.

—— The history of fish. New-York, 1815. 29 p. illust. 48°. Anon. 294

—— History of the emblem of the codfish in the Hall of the House of Representatives. Compiled by a committee of the House. Boston, 1895. 62 p. illust. Anon. 295

—— Hybrides du saumon. Bull. Soc. Acclim. Paris, 1870, 2. ser. **7**, 192. Anon. 296

—— Inauguration de la halle au poisson à Boulogne-sur-Mer et exposition internationale de pêche. L'Illustration, 1866, no. 1228. 3 pls. Anon. 297

—— Der indische Hornhecht (*Belone cancila*) Prakt. Zierfischzüchter 1910, 44–45. Anon. 298

—— Der indische nestbauende Regenbogenfisch. Ausland, 1876, 49. Jahrg., 297–298. Anon. 299

—— The inexplicable sea-monster, part beast and part fish. Nautical Magazine, 1869, 608–610. Anon. 300

—— An inquiry into the present state and means of improving the salmon fisheries, including a digest of the evidence taken by a select committee of the House of Commons. London, 1827. 8°. Anon. 301

—— Instinct d'un brochet. Feuill. Jeunes Natural., 1873–74, 4. année, 45–46. Anon. 302

—— International catalogue of scientific literature. 1 [–13] annual issue. London, 1903 [–16] Anon. 303

Section K, Palæontology. Section N, Zoology.

—— Die internationale Polarforschung 1882–1883. Die Oesterreichische Polarstation Jan Mayen, ausgerüstet durch . . . Graf H. Wilczek; geleitet vom K. K. Corvetten-Capitän E. E. von Wohlgemüth. Beobachtungs-Ergebnisse, etc. 3 vols. (Akad. Wiss. Wien) Wien, 1886. 4°. Anon. 304

Vol. iii contains an article on Fische, by F. Steindachner.

—— Introduction de l'alose [*Alausa præstabilis*] en Californie. Bull. Soc. Acclim. Paris, 1873, 2. sér. **10**, 302. Anon. 305

—— Introduction de l'orfe [*Leuciscus idus*] en Angleterre. Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 422. Anon. 306

—— Introduction du black-bass (*Grystes nigricans*) en Angleterre. Bull. Soc. Acclim. Paris, 1880, 3. ser. **7**, 685. Anon. 307

—— Die Jagd auf den Teufelsfisch [*Ceratoptera vampirus*] in Süd-Karolina. Petermann's Geogr. Mitth., 1859, 123–124. Anon. 308

—— De jagt op den duivelsvisch in Zuid-Karolina [*Ceratoptera vampirus*] Album Natuur, 1860, 316–318. Anon. 309

—— Jagttagelser over nordiske fiskes føde. Nord. Tidsskr. Fiskeri, 1875, Aarg. 2, 57–65. Anon. 310

—— Jets over het vangen Zwaardvisschen. Alg. Visscherij-Courant, 1871, nos. 45–46. Anon. 311

—— Johan Knudsen Haraldseidvaags aaleteine. Norsk Fiskeritidened, Bergen, 1885, **4**, no. 2, 154. Anon. 312

—— Kampf zwischen einem Schwertfisch und einem Wal. Oester.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 179. Anon. 313

—— Kampfisken. Fra alle Lande, 1876, **1**, 79–80. Anon. 314

—— Die Karansche (*Carassius vulgaris*) Allgem. Fischerei Zeitg., 1904, 29. Jahrg., 189–190. Anon. 315

—— Karper og tudser. Tidsskr. Popul. Fremstilling. Naturvidensk., 1871, 4. ser. **3**, 394–397. Anon. 316

—— Kennt der Fisch sein Wohngewässer? Schweiz. Fischerei Zeitg., 1910, 18. Jahrg., 175–178. Anon. 317

—— Der Kerzenfisch [*Thaleichthys pacificus*] Natur, 1879, n. s. **5**, 182. Anon. 318

—— De kleine Linnæus, of beschrijving van vreemde vogels, met bijvoeging van eenige min bekende visschen en slangen, in 65 narr het leven gekleurde afbeeldingen. Amsterdam [n. d.] 76 p. 62 col. pls. 16°. Anon. 319

—— Ein kleiner Beitrag zur Naturgeschichte des Stichlings (Gasterosteus) Isis (Oken), 1834, 227–230. Anon. 320

—— Künstliche Coregonenzucht. Schweiz. Fischerei Zeitg., 1908, 16. Jahrg., 7–9. Anon. 321

—— Künstliche Zucht der spanischen Makrele (*Cybium maculatum*) Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 397. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 170. Anon. 322

—— Kunst-vischteelt de kunstmatige oesteren vischteelt in Frankrijk. Onze Tijd., 1868, 183–188. — Tijdschr. Nijverh., **30**, 65. Anon. 323

—— Kunst-vischteelt in de Vereenigde Staten van Noord-Amerika. Allgem. Visscherij-Courant, 1871, no. 26–30. Anon. 324

—— Kunst-vischteelt in Nederland. Naar aanleiding van een verslag over de inrigting voor de kunst vischteelt te Salzburg. Vaderland. 's Gravenhage, 17. Julij, 1869. Anon. 325

—— Kunst-vischteelt over het poten van zalm. Algem. Visscherij-Courant, 1871, no. 48–49. Anon. 326

—— Laichverhältnisse und Laichgebiete der Gadiden. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1909, **10** *A*, 45–77. 23 figs. Anon. 327

—— *Lampris guttatus* pêché à Mardyck. Bull. Sci. Départ. Nord., 1880, 352. Anon. 328

—— Lamproies marines capturées à Autun en 1910. Bull. Soc. Hist. Nat. Autun, 1910, no. 23, Proc. Verb., 138–139. Anon. 329

—— Large sun-fish off the north of Scotland. Zoologist, 1875, 2. ser. **10**, 4725. Anon. 330

—— Larvenzustände bei Fischen. Carinthia, 1865, 55. Jahrg., 183–184. *Ibid.*, 1866, 56. Jahrg., 66. Anon. 331

—— Ein lebendige Junge gebärender Fisch. Natur (Müller), 1878, n. s. **4**, 83. Anon. 332

—— Die Lebensdauer der Fische ausser dem Wasser. Zool. Garten, 1866, 7. Jahrg., 155–156. Anon. 333

—— Die Lebensweise des Aals. Neue Notizen (Froriep), 1841, **19**, 341–342. Anon. 334

—— Lebenszähigkeit der Bachforelle. Zool. Garten, 1866, 7. Jahrg., 156–157. Anon. 335

—— Lebenszähigkeit des Wetterfisches (*Cobitis fossilis*) Zool. Garten, 1870, 11. Jahrg., 162. Anon. 336

—— Lettre sur l'histoire naturelle des poissons de la Lorraine et sur les ombres coloriées en bleu, observées au Hâvre en 1783 [n. p., n. d.] 16 p. 8°. Anon. 337

—— Leuchten der Fische. Aus der Natur, 1861, **16** (n. s. **4**), 302–303. Anon. 338

—— Life beneath the waves, and a description of the Brighton aquarium; with numerous illustrations, including ground plan of the aquarium. London, 1871. 8°. Anon. 339

—— The life-history of the macropode. Pop. Sci. Rev., 1873, **12**, 222. Anon. 340

—— List of fishes received from the Smithsonian Institution in 1865. 24. Ann. Rept. N. Y. State Mus. Nat. Hist., Albany, 1872, 39–40. Anon. 341

—— List of mounted fishes in the State Museum. 24. Ann. Rept. New York State Mus. Nat. Hist., 1872, 33–37. Anon. 342

—— List of the publications recording the results of researches carried out under the auspices of the Marine Biological Association of the United Kingdom in their laboratory at Plymouth or on the North Sea coast from 1886–1913. Journ. Marine Biol. Assoc. 1913–15 (1913), n. s. **10**, 143–178. Anon. 343

—— The literature of the ten principal food fishes of the North sea, in the form of compendious monographs. 1903. *See* Conseil Permanente International pour l'Exploration de la Mer. Publications de Circonstance, No. 3.

—— Living animals of the world. A popular natural history . . . edited by Charles J. Cornish, F. C. Selous, Sir Harry Johnston, Sir Herbert Maxwell, etc. 2 vols. New York, 1902. illust. 4°. Anon. 345

—— London, England, International fisheries exhibition, 1883. The fisheries exhibition literature. 14 vols. London, 1884. 8°. Anon. 346

Handbooks

i. Walpole, Spencer. The British fish trade. — Kent, W. S. Marine and freshwater fishes of the British Islands. — Pollock, (*Sir*) Frederick. The fishery laws. — Holdsworth, E. W. H. Apparatus for fishing. — Mitchell, W. S. The place of fish in a hard-working diet, with notes on the use of fish in former times. — Adams, W. M. A popular history of the fisheries and fishermen of all countries from the earliest times.

ii. Day, Francis. Fish culture. — Howes, G. B. Zoology and food fishes. — Bertram. J. G. The unappreciated fisher folk: their round of life and labour. — Fryer, C. E. The salmon fisheries. — Senior, William. Angling in Great Britain. — Day, Francis. Indian fish and fishing.

iii. Robinson, Philip. Fishes of fancy: their place in myth, fable, fairy-tale, and folk-lore. With notices of the fishes of legendary art, astronomy and heraldry. — Wheeldon, J. P. Angling clubs and preservation societies of London and the provinces. — Lee, Henry. Sea fables explained. Sea monsters unmasked. — Wheeldon, J. P. Practical lessons in the gentle craft. — Manley, J. J. Literature of sea and river fishing.

Conferences

iv. Huxley, T. H. Inaugural address. — Alfred Ernest Albert (*1st duke of Eainburgh*). Notes on the sea fisheries and fishing population of the United Kingdom. — Shaw-Lefevre, George. Principles of fishery legislation. — Walpole, Spencer. Fish transport and fish markets. — Levi, Leone. The economic condition of fishermen. — Fryer, C. E. A national fisheries society. — Kennett-Barrington, (*Sir*) V. H. B. River pollution by refuse from manufactories and mines; with some remedies proposed. — Practical Fishermen's congress, London, 1883. Destruction of immature fish, etc. — Lankester, E. R. The scientific results of the exhibition.

v. Goode, G. B. A review of the fishery industries of the United States, and the work of the United States fish commission. — Hubrecht, A. A. W. Oyster culture and oyster fisheries in the Netherlands. — Joncas, L. Z. The fisheries of Canada. — Campbell, J. D. The fisheries of China. — Okoshi, Narinori. A sketch of the fisheries of Japan. — Shea, (*Sir*) Ambrose. Newfoundland: its fisheries and general resources. — Smitt. F. A. The Swedish fisheries. — Wallem, F. M. Notes on the fish supply of Norway. — Ramsay, E. P. Notes on the food fishes and edible mollusca of New South Wales, etc. — García Solá, Francisco. The fisheries of Spain. — Adderley, (*Sir*) A. J. The fisheries of the Bahamas. — Moloney, (*Sir*) C. A. West African fisheries, with particular reference to the Gold Coast colony.

vi. Huxley, T. H. Fish diseases. — Maitland, (*Sir*) J. R. G. The culture of salmonidæ and the acclimatization of fish. — Duff, R. W. The herring fisheries of Scotland. — Cornish, Thomas. Mackerel and pilchard fisheries. — Milne-Home, David. Salmon and salmon fisheries. — Marston, R. B. Coarse fish culture. — Cobbold, T. S. The destruction of fish and other aquatic animals by internal parasites. — Day, Francis. The food of fishes. — Harding, C. W. Molluscs, mussels, whelks, etc., used for food or bait. — Kent, W. S. The artificial culture of lobsters. — Cornish, Thomas. Crustaceans.

vii. Thompson, (*Sir*) Henry. Fish as food. — Massey-Mainwaring, W. F. B. The preservation of fish life in rivers by the exclusion of town sewage. — Bloomfield, J. C. The fisheries of Ireland. — Walsh, R. F. Improved facilities for the capture, economic transmission, and distribution of sea fishes, etc. — Temple, (*Capt.*) Seal fisheries. — Scott, R. H. Storm warnings. — Roper, Richard. Saving life at sea. — Kilbourn, J. K. Fish preservation and refrigeration. — García Solá, Francisco. The basis for legislation on fishery questions. — Howitz, D. Forest protection and tree culture on water frontages, etc. — Mundahl, C. M. Line fishing. — Ansell, A. W. Trawling.

viii. Day, Francis. The commercial sea fishes of Great Britain. — Morris, C. W. The effect of the existing national and international laws for the regulation and protection of deep sea fisheries; with suggestions for improvements of said laws. — Leith, J. M. Salmon legislation in Scotland: the legislation at present applicable to the salmon fisheries in Scotland and the best means of improving it.

ix. Wilcocks, J. C. Improved fishery harbour accommodation for Great Britain and Ireland. — De Caux, J. W. The best system of life insurance for fishermen, and of insuring boats, gear, nets, etc. — Fryer, C. E. The relations of the state with fishermen and fisheries, including all matters dealing with their protection and regulation. — Chater F. J. T. The relations of the state with fishermen and fisheries, including all matters dealing with their protection and regulation. — Beaujon, Anthony. The history of Dutch sea fisheries: their progress, decline, and revival, especially in connection with the legislation on fisheries in earlier and later times.

x. Houghton, William. The natural history of commercial sea fishes of Great Britain and Ireland. — Blake, H. P. Improved facilities for the capture, economic transmission, and distribution of sea fishes. — Cayley, J. J., & Bridgman, H. H. A central wholesale fish market for London. — Smith, W. A. The best appliances and methods of breaking the force of the sea at the entrance to harbours and elsewhere.

xi. Stirling, J. The propagation of the Salmonidæ. — Andrews, T. The propagation of the Salmonidæ. — Chambers, W. O. The propagation of the Salmonidæ. — Clark, John. The salmon disease. — Smith, W. A. Salmon disease: its cause and prevention. — Marston, R. B. The cultivation of freshwater fish other than salmonidæ. — Chambois, W. O. The propagation of freshwater fish excluding Salmonidæ. — Hogarth, Ronald. The herring fishery. — Munro, R. J. The herring fisheries. — Green, H. J. The herring fisheries. — Miln, W. S. The Scotch east coast, Orkney and Shetland, Lewis and Barra herring fishing. — Houghton, William. The natural history and cultivation of the sole. — Anson, C. V., & Willett, E. H. Oyster culture. — Hoek, P. P. C. Oyster culture. — Carr, T. F. R. The best means of increasing the supply of mussels and other molluscs, etc. — Wilcocks, J. C. The best means of increasing the supply of mussels and other molluscs, etc. — Chambers, W. O. The introduction and acclimatisation of foreign fish. — Sim, G. The food of fishes, etc. — Watt, W. The currents, temperatures, and other physical conditions of the sea in relation to fish. — Skinner, J. Angling clubs.

Miscellaneous

xii. Official catalogue. — Awards of the international juries.

xiii. Walpole, Spencer. Official report on the exhibition. — Statement of receipts and disbursements. — Gooch, W. D. Special report on the electric lighting of the exhibition. — Ceremonial at opening of exhibition and addresses at closing. — Report of executive committee to general committee. — Statistical tables. — Condensed reports on the condition of the fishing industry in the United Kingdom and abroad, used in the first instance in the official catalogue.

xiv. Analytical index.

—— The London fishery laid open; or, The arts of the fishermen and fishmongers set in a true light. In a letter to . . . London, 1759. 4°. Anon. 347

—— Lungefiske [Dipnoi] Naturen, 1880, 4. Jahrg., 171–174. Anon. 348

—— Die Lungenfische. Aus der Natur, 1864, **29** (n. s. **17**), 455–458. Anon. 349

—— Die Lungenfische. Ausland, 1880, 53. Jahrg., 15–17. Anon. 350

—— De makreel. Kennis en Kunst (Winkler), 1870, 96–99. fig. Anon. 351

——Makrelfisket. Aftenbladet, Christiania, 1864, nos. 2 and 3. Anon. 352

—— Male eels in Holland. Amer. Naturalist, 1880, **14**, 600–601. Anon. 353

—— Massachusetts. Commissioners for the artificial propagation of fish. Report of commissioners appointed under resolve of 1856, chap. 58, concerning the artificial propagation of fish [With other documents. Boston, 1857] 54 p. 8° (Senate, no. 193) Anon. 354

Pisciculture, by Jules Haime, p. 19–54.

—— Massachusetts. Commissioners of fisheries [2d–22d annual] report of the commissioners for [1867]–1887. Boston, 1868–88. 8°. Anon. 355

The 5th–20th reports have the title, "Report of the commissioners on inland fisheries"; that for 1886 is called "Report of the fish and game commissioners." and that for 1887, "Report of the commissioners on inland fisheries and game." The 6th report contains a collection of the laws of Massachusetts relating to inland fisheries, 1623–1871.

—— Massachusetts. Zoological and botanical survey. Reports on the fishes, reptiles and birds of Massachusetts. Boston, 1839. 4 p. 8°. Anon. 356

Contents: Storer, D. H. Reports on the ichthyology and herpetology of Massachusetts. — Peabody, W. B. O. A report on the ornithology of Massachusetts.

—— Mérges halak [Poisonous fishes] Term. Tud. Közl., 1872, **4**, 301. Anon. 357

—— Merkwürdige Brutpflege bei Fischen. Aus der Natur, 1870, **52** (n. s. **40**), 324–325. Anon. 358

—— Migrazione degli occhi nei pleuronettidi. Annuar. Sci. Industrial 1865 (1866), **2**, 307–309. Anon. 359

—— Mimikry bei Süsswasserfischen. Naturf. (Sklarek), 1872, 5. Jahrg., 8. Anon. 360

—— Mire való az úszó-hólyag a halaknál? [On function of the swim-bladder] Term. Tud. Közl., 1873, **5**, 360–361. Anon. 361

—— Mode of life of the sucking-fish [*Echeneis remora*] and pilot fish [Naucrates] Amer. Naturalist, 1871, **5**, 436–437. Anon. 362

Notice of Van Beneden's investigations.

—— Monster eel. Zoologist, 1868, 2. ser. **3**, 1061. Anon. 363

—— A monster salmon. Zoologist, 1869, 2. ser. **4**, 1836. Anon. 364

—— Monströse Forelle. Aus der Natur, 1862, **19** (n. s. **7**), 15. Anon. 365

—— Movements of the herring. Nature, 1875, **11**, 151–152. Anon. 366

—— De murene. Kennis en Kunst (Winkler), 1869, 79–81. fig. Anon. 367

—— The music of fishes. Fishing Gazette, 1877, no. 17, 13. Anon. 368

—— Musicirende Fische. Aus der Natur, 1861, **16** (n. s. **4**), 220–224; 237–240. Anon. 369

—— Musikalische Fische. Aus der Heimath, 1862, 77–78. Anon. 370

—— Die Nahrung der Karpfen. Landw. Zeitg. nebst Anzeiger, Kassel, 1880, 2. Jahrg., 507–511; 521–522. Anon. 371

—— Nahrung und Lebensweise der Salme, Forellen und Maifische. Aus der Natur, 1875, **54** (n. s. **6**), 199–200. Anon. 372

—— The natural history of animals, containing an account of remarkable fishes. Dublin, 1818. Anon. 373

—— Natural history of birds, fish, insects and reptiles. 5 vols. London, 1798. 200 figs. 8°. Anon. 374

—— Natural history of some of the more important food-fishes of the south shore of New England. U. S. Fish Comm. 1873, **1**, 228–252. Anon. 375

—— Nature portraits; studies with pen and camera of our wild birds, animals, fish and insects. Text by the editor of "Country life in America." New York, 1902, 40 p. 15 pls. illust. fol. Anon. 376

—— Naturgeschichte der Seeteufel [Lophius] Samml. Deutsch. Abh. Akad. Wiss., Berlin, 1774, **6**, 83–91, 169–176. Anon. 377

—— Naturgeschichte des britischen Härings. Ausland, 1863, 36. Jahrg., 646–647. Anon. 378

—— Nederland. Algemeene statistiek van Nederland. Beschrijving van den maatschappelijken toestand van het Nederlandsche volk in het midden der 19e eeuw. Uitgegeven door de vereeniging voor de Statistiek in Nederland. Leiden, 1869. 8°. Anon. 379

List of fishes, p. 257–261.

—— Nestbau der Regenbogenfische. Naturf. (Sklarek), 1876, 9. Jahrg., 46. Anon. 380

—— Der Nestbau des Stichlings (*Gasterosteus aculeatus*) Isis (Russ), 1877, 2. Jahrg., 127–129. Anon. 381

—— Nestbauende Fische. Aus der Natur, 1866, **37** (n. s. **25**), 587–590. Anon. 382

—— Neu curiosus eidgenössisch-schweitzerisches Hauss-Buch, 1705. Basel. Das fünfzehente Capitel. Von den Schweitzer-Fischen. Schweiz. Fischerei Zeitg., 1897, **5**, 226–228; 244–245; 267–269. Anon. 383

— Neue Fische in Zentralasien. Natur (Müller), 1879, n. s. **5**, 182. Anon. 384

—— Der neue Ganoidfisch in Queensland. Ausland, 1872, 35. Jahrg., 910–911. Anon. 385

—— Neue Wandtafeln der See- und Süsswasserfische. Esslingen, 1911. 4 Farbendrucktafeln in-fol. auf Karton mit Textheft. Anon. 386

—— Ein neuer Bastard-Lachs [Salmo] Ausland, 1872, 45. Jahrg., 1104. Anon. 387

—— Ein neuer Feind der Fische. Zool. Garten, 1875, 16. Jahrg., 276. Anon. 388

—— Ein neuer Ganoidfisch aus Australien [*Ceratodus forsteri*] Ausland, 1870, 43. Jahrg., 792. Anon. 389

—— Neuer Schauplatz der Natur nach den richtigsten Beobachtungen und Versuchen in alphabetischen Ordnung durch eine Gesellschaft von Gelehrten. 10 vols. Leipzig, 1775–81. 8°. Anon. 390

References to elasmobranch fishes described in this work are made by S. Garman, in the introduction to his memoir on the Plagiostomia, 1913.

—— Neunaugen betreffend. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 25–26. Anon. 391

—— A new and complete dictionary of arts and sciences; comprehending all branches of useful knowledge. By a Society of gentlemen. 4. ed. London, 1763. illust. 8°. Anon. 392

General instructions are given under the heads "Angler" and "Angling"; the various fish are described under their names, and figures are given in most cases.

—— New deep-sea fishes. Amer. Naturalist, 1879, **13**, 455–456. Anon. 393

—— New Essex marine fishes. Essex Naturalist, 1903, **13**, 81–83. Anon. 394

—— The new fish [*Silurus glanis* L] introduced into the British waters. Sci. Gossip 1865 (1866), 56–57. fig. Anon. 395

—— A new group of Cyprinidæ [Plagopterinæ] Amer. Naturalist, 1874, **8**, 436–437. Anon. 396

—— A new nest-building fish. Pop. Sci. Rev., 1874, 321–323. Anon. 397

—— The New York Fish Commission [the hatchery at Cold Spring harbor] Forest & Stream, 1885, **23**, 127. Anon. 398

—— Een nieuwe vergiftige visch [*Synanceia verrucosa*] Isis (Huizinger), 1872, **1**, 155–156. Anon. 399

—— Noch ein Beitrag zur Aalfrage. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 57–58. Anon. 400

—— Noch einmal etwas über den Aal. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 307. Anon. 401

—— Noch einmal *Tetrodon cutcutia*. Natur u. Haus, 1905, 13. Jahrg., 99. Anon. 402

—— Note on a fossil species of Chlamydoselachus. Geol. Mag., 1887, 3. dec. **4**, 392–393. — Proc. Zool. Soc. London, 542–544. Anon. 403

—— Note on *Blanchardia maculata* Castelnau. Mem. Queensland Mus., 1912, **1**, 216. Anon. 404

—— Note on the shad as observed at Beaufort harbor, North Carolina, and vicinity. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 452–456. Anon. 405

—— Note sur le saumon (*Salmo toledi*=*Salmo confinis* Dekay) Bull. Soc. Acclim. Paris, 1869, 2. ser. **6**, 394–395. Anon. 406

—— Note sur les produits de la pêche dans les cours d'eau, les lacs et les étangs d'eau douce de la France. Bull. Soc. Acclim. Paris, 1860, **7**, 136–138. Anon. 407

—— Note sur l'introduction, en France, du gourami, poisson de l'île Maurice. Rev. Mag. Zool., 1861, 2. ser. **13**, 430–431. Anon. 408

—— Notes on a fossil fish found at Southwater, August, 1906. Rept. Christ's Hospital Nat. Hist. Soc., 1906, 29. 2 pls. Anon. 409

—— Notes on the development of Amia. Abstract in Proc. Amer. Assoc. Sci., 1879, 296–298. Anon. 410

—— Notes on the fish caught off Pointe au Sable, July 7, 1874. Trans. Roy. Soc. Mauritius, 1875, n. s. **8**, 130–133. Anon. 411

—— Notes on the natural history of fish. Fishing Gazette, 1877, no. 6, 8–9; no. 7, 8, 9. Anon. 412

—— Notice of catfish, *Amiurus albidus*, taken in McCloud's lake, Stockton. Chicago Field, 1879, **12**, 69. Anon. 413

—— Notice of catfish [Amiurus] for Susan river and Eel lake. Chicago Field, 1879, **12**, 85. Anon. 414

—— [Notice of catfish, 5 to 15 inches long, taken in Sausal Lagoon, where planted three years before] Chicago Field, 1879, **12**, 53. Anon. 415

—— Notice of the spoonbill-sturgeon or paddle fish [*Polyodon feuille* Lacépède] of the Ohio. Amer. Journ. Sci., 1827, **12**, 201–205. Anon. 416

—— Notice of trout (*Salmo fontinalis*) passing through flume under pressure of 376 pounds to the square inch. Chicago Field, 1879, **12**, 53. Anon. 417

—— Notices in regard to the abundance of fish on the New England Coast in former times. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 149–172. Anon. 418

—— Noticia do Brasil, discripçâo verdadeira da costa daquelle estadō que pertence a coroa do reino de Portugal sitio da Bahia de todos os Santos (Collecçao de noticias para a historia e geografia das nacōes ultramarinas, etc. vol. iii, pars 1. Lisboa, 1825) Anon. 419

The MS. for this important work on the natural history of Brazil, which is worthy of comparison with Oviedo's Historia general de los Indias, was written in Bahia about the year 1587, and was drawn upon by a number of later writers. *See* Martius, C. F. P. von, in Abh. K. Bayer. Akad. Wiss., 1853, **7**, 198.

—— Notizie dei pesci delle provincie di Como e Sondrio e del Cantone Ticino. 2. ed. Como, 1864. 105 p. 16°. Anon. 420

The text is often taken verbatim from Monti, Ittiologia della provincia e diocesi di Como. Como, 1846.

—— Nouvelle méthode de pisciculture. Réempoissonnement des étangs, rivières et côtes maritimes. Bordeaux, 1906. 177 p. 16°. Anon. 421

—— Nova Acta . . . Volumen extra ordinem editum (In memoriam quattuor seculorum ab Universitate Upsaliensi peractorem) Upsaliæ, 1877. 4°. Anon. 422

ii. Analyse des Fleisches einiger Fische von A. Almén. 59 p. Inaug. Dissert.

—— *Nuria danrica* Bleek, eine neu eingeführte Barbe. Natur u. Haus, 1904, 13. Jahrg., 81–82. 2 figs.
Anon. 423

—— Observações sobre alguns peixes do mar e rios do Algarve. Mem. Acad. Sci. Lisboa, 1818, 1–48. Anon. 424

—— Observations regarding the salmon fishery of Scotland. 2. ed. Edinburgh, 1824. 8°. Anon. 425

—— Observations sur quelques poissons de la mer et des rivières des Algarves; par . . . Mem. Acad. Sci. Lisboa, 1828, **5**, pt. 2, 1–49. — Bull. Sci. Nat. (Férussac), **15**, 402. Anon. 426

—— Okunie [Ueber den Barsch] Przyroda i Przemysl, 1873, **2**, 361–363.
Anon. 427

—— Om den norske Sild. Folkevennen. Christiana, 1861, **10**, 644.
Anon. 428

—— On stocking rivers, streams, lakes, ponds and reservoirs with Salmonidæ. Stirling, N. B., 1898. 77 p. 8°.
Anon. 429

—— On the habits and food of the stickleback. Ann. Phil., 1826, n. s. **11**, 173–176. — Edinburgh Journ. Sci., 1826, **4**, 76–80. — Notizen (Froriep), 1826, **13**, 209–212. — Isis (Oken), 1834, 501–502.
Anon. 430

—— On the natural history of the salmon and on the salmon fisheries, etc. Edinb. Phil. Journ., 1825, **12**, 335–360.
Anon. 431

—— On the *Petromyzon marinus*. Quart. Journ. Sci. Liter. Arts Roy. Inst., 1827, n. s. no. 3, 72–76. figs. — Notizen (Froriep), 1827, **18**, 321–323.
Anon. 432

—— On the reappearance of the tilefish (*Lopholatilus chamæleonticeps*) 29. Ann. Rept. Comm. Inland Fish. Rhode Island, 1899, 99–103. 2 pls.
Anon. 433

Reprinted from Science, n. s. **8**, 576–578.

—— On the voracity of the eel. Nat. Hist. Trans. Northumberland, Durham, 1877, **5**, pt. 3, 341–342.
Anon. 434

—— Onomatologia forestalis piscatorio-venatoria, oder Vollständiges Forst- Fisch- und Jagd Lexicon. Frankfurt & Leipzig, 1772. figs. 8°. Anon. 435

—— Otolites. Sci. Gossip, 1868, 151–152. Anon. 436

—— Papers relating to the improvement of the salmon fisheries in the district of the river Girvan in the county of Ayr. With report and six plans by J. Leslie as to the means of facilitating the ascent of salmon over the mill-dams. Edinburgh, 1872. 8°. Anon. 437

—— Pêche du hareng dans la mer du Nord. Extrait d'un rapport adressé au ministre de la marine, le 12 octobre 1893, par le capitaine de frégate Schilling commandant de l'aviso "l'Ibis" et de la station de la Manche et de la Mer du Nord. Revue maritime, 1898, **139**, 367–369. Anon. 438

—— Pęcherz pławny ryb [On the swim-bladder of fishes] Przyroda i Przemysl. 1879–80, **8**, 137–139; 149–150. Anon. 439

—— The peregrination of eels. Fish. Gazette, 1880, **4**, 137. Anon. 440

—— La pesca in Italia nel 1897. Neptunia, Venezia, 1899, **14**, 41–43.
Anon. 441

—— Pesci che nascono nel Danubio, e volatili che vivono lungo d' esso, delineati ed incisci in tavole cxii. Bologna [n. d.] fol. Anon. 442

Not seen; title from Bosgoed.

—— Pesci rari od interessanti inviati alla Esposizione di Berlino [pel Museo civico di Storia naturale della città di Genova] Esposiz. Internaz. Pesca in Berlino, Sezione italiana, Catalogo, 1880, 139–140. Anon. 443

—— La petite morue (*Gadus tomcodus*) Naturaliste Canadien, 1870, **2**, 28–29. Anon. 444

—— Der Pfeilfisch [*Belone vulgaris*] Samml. Deutsch. Abh. Akad. Wiss. Berlin, 1776, **8**, 234. Anon. 445

—— Pike and perch, by various authors. London, 1912. 288 p. figs. 8°.
Anon. 446

—— The pike (*Esox lucius*) Sci. Gossip, 1867, 60–61. figs. Anon. 447

—— Pisces Hispaniæ. Atlas of 93 colored plates [n. p., ? *circa* 1800]
Anon. 448

—— Platvisschen [Pleuronectidæ] Kennis en Kunst (Winkler), 1869, 289–294. fig. Anon. 449

—— Poison organs in a fish. Nat. Hist. Rev., 1864, 315–316. Anon. 450

—— Poisonous fishes. Fish. Gazette, 1879, **3**, 606–607. Anon. 451

—— Poissons, oiseaux et plantes du département de Saône et Loire. Autun, 1865. 8°. Anon. 452

—— Das Präpariren von Fischeiern und Fischen für Sammlungen. Isis (Russ), 1880, 5. Jahrg., 340–342; 478–479. Anon. 453

—— Preisaufgabe der königliche Akademie der Wissenschaften zu St. Petersburg über die Erforschung der Natur des Fischgiftes, etc. Biol. Centralbl., 1903, 23. Anon. 454

—— The preparation of a list of the fishes known to inhabit the bay [Narragansett bay] 30. Ann. Rept. Comm. Fish. Rhode Island, 1900, 46–53. Anon. 455

—— The preservation of fish and reptiles. Nat. Sci., 1897, **10**, 297–298. Anon. 456

—— A problem in the natural history of the salmon. Nature, 1877, **15**, 375–377. Anon. 457

—— Die Produktionsfähigkeit des Härings. Natur (Müller), 1880, n. s. **6**, 78. Anon. 458

—— Prof. Costes jagttagelser over Hundesteilernes [Gasterosteus] redebygning. Tidsskr. Popul. Fremstilling Naturvidensk., 1864, 3. ser. **1**, 124–139. fig. Anon. 459

—— Programme de l'exposition d'hydrobiologie, de pisciculture et de pêche, organisée par la section ichthyologique de la Société Impériale d'Acclimatation de Russie, à Moscou au mois de Mars 1903. Soc. Acclim. Russie, Sect. Ichthyol., 1903. 2 p. Anon. 460

Text also in German.

—— Quelques détails sur la pêche et la pisciculture en France. Rev. Britannique, 1867, 319–339. Anon. 461

—— Les raies et leurs œufs. Naturaliste Canadien, 1874, **6**, 370–374. figs. Anon. 462

—— Rapid growth of the Californian salmon [*Oncorhynchus quinnat*] Forest & Stream, 1879, **12**, 55. Anon. 463

—— Rapid growth of the pickerel (*Esox reticulatus*) Amer. Naturalist, 1871, **5**, 313–314. Anon. 464

—— Rapport over ankerkuil- en staalboomenvisscherij uitgebracht aan zijne excellentie den Minister van financien. Tijdschr. Nederland. Dierk. Vereen., Leiden, 1888, **2**, 14–331. 6 pls. Anon. 465

Text also in German.

—— Recherches anatomiques et zoologiques faites pendant un voyage sur les côtes de la Sicile et sur divers points du littoral de la France. 3 vols. Paris, 1850. 83 pls. 4°. Anon. 466

—— Recherches faites en Angleterre sur les migrations du saumon. Bull. Soc. Acclim. Paris, 1873, 2. ser. **10**, 660. Anon. 467

—— Report on propagation of salt-water fish. United States Commerce Committee, 46. Congress, 1. & 2. Session, House report, no. 85, 1880, **1**. 15 p. Anon. 468

—— Report on the natural history of the herring and the operation of the acts of parliament, relating to the modes of fishing (by Col. Maxwell, Dr. Lyon, Playfair and Mr. Huxley) London, 1863. Anon. 469

—— Reports of state commissions in regard to regulating sea-fisheries by law. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 104–124. Anon. 470

—— Reports on the natural history of salmonoids in the Tweed and its tributaries, published by authority of the Tweed fishery commissioners. Edinburgh, 1867. 8°. Anon. 471

—— Reproduction artificielle de poissons; travaux exécutés aux Etats-Unis de l'Amerique. Rev. Marit. Colon., Paris, 1872, 510–543. Anon. 472

—— Reproduction des Hippocampes. Arch. Cosmol. (Dubois) Bruxelles, 1868, 64. Anon. 473

—— Results of the artificial propagation of salmon [London? 1857] 8°. Anon. 474

—— Ein Riesen-Hai. Ausland, 1876, 49. Jahrg., 760. Anon. 475

—— Rivista di generi e di specie. Diagnosi di alcuni nuovi pesci pubblicati nel 1860–61. Arch. Zool. Anat. Fisiol, 1861, **1**, 81–88. Anon. 476

—— The rudd and its scales [*Leuciscus erythrophthalmus*] Sci. Gossip 1869 (1870), 12–13. figs. Anon. 477

—— Rupture du cable de Singapor par un poisson [*Pristis antiquorum*] Bull.

Hebd. Assoc. Sci. France, 1873, **12**, 428–429. Anon. 478

—— Ryby ze Zbrucza [On the fishes in Zbrucz] Spraw. Komis. Fizyograf. Kraków, 1869, **3**, 152. Anon. 479

—— Salm. Aus der Natur, 1871, **58** (n. s. **46**), 735. Anon. 480

—— *Salmo salar ouananiche* McC. Natural. Canad., 1914, **41**, 20–24. Anon. 481

—— *Salmo salar;* von den Rheinanken oder Illanken, *Salmo illanca*. Schr. Ges. Naturf. Freunde Berlin, 1783, **4**, 55. Anon. 482

—— The salmon and sea fisheries, containing comments upon the existing and proposed legislation, and a practical inquiry into the state of the Irish fisheries. Dublin, 1852. 8°. Anon. 483

—— Salmon fisheries. 30. Ann. Rept. Fishery Board Scotland, 1912, pt. 2, lvi–lviii. Anon. 484

—— Salmon in Tasmania; report of the salmon commissioners to the governor of Tasmania. Athenæum, 1869, 664. Anon. 485

—— Salmon ponds at New Norfolk, Australia. Illust. London News, 1867, 97. Anon. 486

—— Der Sattelkopf [*Pelor filamentosum*] Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 10. fig. Anon. 487

—— Le saumon du Sacramento [*Oncorhynchus quinnat*] Bull. Soc. Acclim. Paris, 1874, 3. sér. **1**, 422–423. Anon. 488

—— Des saumons. Bull. Soc. Acclim. Paris, 1869. 2. sér. **6**, 392–394. Anon. 489

—— Schleihen im trockenen Boden. Natur, 1875, n. s. **1**, 144. Anon. 190

—— Schnelles Wachsthum der Fische. Ausland, 1861, 34. Jahrg., 744. Anon. 491

—— Der Schwertfisch [Histiophorus] des indischen Oceans. Zool. Garten, 1872, 13. Jahrg., 29. Anon. 492

—— La science française à l'Exposition de San Francisco. 2 vols. Paris, 1915. 8°. Anon. 493

Vol. i. La géologie, par Emm. de Margerie, p. 201–265. La paléontologie zoologique, par Marcellin Boule, p. 289–319.

—— Scottish National Antarctic Expedition. Report on the scientific results of the voyage of S. Y. "Scotia," etc. Anon. 494

Zoological log of S. Y. "Scotia," by David Wilton, vol. iv, part 1.

—— Sea-fisheries of eastern Canada. Conservation Commission Canada: Committee of Fisheries. Ottawa, 1912. 212 p. pl. & 4 maps. 8°. Anon. 495

—— Sea-serpents [Regalecus] Amer. Journ. Sci., 1872, 3. ser. **4**, 332. Anon. 496

—— Seefischfang [Zusammenhang der Grosse der Fische mit dem Salzgehalt des Meeres] Natur, 1869, **48**, n. s. **36**, 255. Anon. 497

—— Der Seehase (*Cyclopterus lumpus*) Natur (Müller), 1878, n. s. **4**, 560. Anon. 498

—— Das Seepferdchen. Aus der Natur, 1866, **37** (n. s. **25**), 606–607. Anon. 499

—— Der Seeteufel an der Küste von Carolina. Ausland, 1867, 40. Jahrg., 1051–1052. — Aus der Natur, 1868, **43** (n. s. **31**), 70–72. Anon. 500

—— Selskabet for de norske Fiskeriers Fremme; aarsberetning 1884. Bergen [1884] lxi, 63 p. 8°. Anon. 501

—— Seltsame Fische. Ausland, 1874, 47. Jahrg., 616–618. Anon. 502

—— A series of zoological drawings, chiefly in water-colour, by various artists. Collected and bequeathed to the British Museum by General T. Hardwicke. 35 vols. Anon. 503

Fishes of India and China, 6 vols. Spinous-rayed, 2 vols. 321 drawings. Soft-rayed, 2 vols. 314 drawings. Cartilaginous, 102 drawings. Indian fishes, 81 drawings.

Miscellaneous drawings of Indian mammals, birds, fishes, etc. 31 drawings.

See also note under Anon. 135, *supra*.

—— Sex of the lamprey, etc., by an old angler. Mag. Nat. Hist., 1830, **3**, 478–479. Anon. 504

—— Singende Fische. Ausland, 1860, 33. Jahrg., 935–936. Anon. 505

—— Singing fish. Zoologist, 1860, **18**, 7237–7238. Anon. 506

—— Skrubben (*Platessa flesus* L.) som Faerskvandsfisk. Fiskeritidskr. Finl., 1869, 3. Jahrg., 142–143. Anon. 507

—— Die sogenannten pseudo-elektrischen Organe der Zitterfische. Kosmos, 1878, **3**, 91. Anon. 508

—— Some account of *Gasterosteus aculeatus.* Mag. Nat. Hist., 1830, **3**, 329–332. — Isis (Oken), 1834, 227–230. Anon. 509

—— Sorge von Fischen für ihre Eier. Zool. Garten, 1874, 15. Jahrg., 193. Anon. 510

—— The spawning of freshwater fish. Fishing Gazette, 1880, **4**, 134–135. Anon. 511

—— Spawning of the capelin (*Mallotus villosus*). Amer. Naturalist, 1871, **5**, 119–120. Anon. 512

—— Specific characters in early embryos. Amer. Naturalist, 1907, **41**, 589–592. 15 figs. Anon. 513

—— The speckled beauties [*Salmo fontinalis*] in Colorado. Rod & Gun, 1875, **6**, 348. Anon. 514

—— A spinous fin in a minnow [Protistius Cope] Amer. Naturalist, 1874, **8**, 58. Anon. 515

—— Statistical information relating to the salmon fisheries. Fisheries Ireland Scient. Invest., 1904, no. 7, 15–56. Anon. 516

—— Statistics of fish and fisheries on the South shore of New England. Rept. U. S. Fish Comm. 1871–72 (1873), **1**, 173–181. Anon. 517

—— Statistische und biologische Beiträge zur Kenntniss vom Leben des Rheinlachses im Süsswasser. Oesterr.-ungar. Fischerei Zeitg., 1880, 293–296; 301–303; 309–312; 319–321; 325–329; 335–336; 343–344; 350–352; 361–362; 366–369; 376–378; 385–386; 392–394. Anon. 518

—— Statuten (voorloopige) voor de Maatschappij ter bevordering van de vischteelt [n. p., n. d.] 7 p. 8°. Anon. 519

—— Steinbutt-Züchtung. Ausland, 1867, 40. Jahrg., 888. Anon. 520

—— De steur en de steurvisscherij. Kennis en Kunst, 1869, 3–6. pl. Anon. 521

—— Stickleback breeding. Sci. Gossip 1866 (1867), 153. Anon. 522

—— Stickleback's nests. Sci. Gossip 1866 (1867), 5–6. fig. Anon. 523

—— Stillehavs-smelten [*Osmerus pacificus*] Tidsskr. Pop. Fremstilling Naturvid., 1868, 3. ser. **5**, 347–352. Anon. 524

—— The stocking of our ponds and streams with suitable freshwater fish through the distribution of eggs and fry. 30. Ann. Rept. Comm. Fish. Rhode Island, 1900, 7–8. *Ibid.*, 31. Ann. Rept., 1901, 8–10. *Ibid.*, 32. Ann. Rept., 1902, 8–11. *Ibid.*, 33. Ann. Rept., 1903, 14–15. *Ibid.*, 34. Ann. Rept., 1904, 13. Anon. 525

—— De structur van vischschubben. Kennis en Kunst (Winkler), 1870, 88. Anon. 526

—— Substance of reports received from clerks of conservators relative to salmon fisheries. Fisheries Ireland Scient. Invest., 1904, no. 7, 57–79. *Ibid.*, 1907, no. 9, 12–33. Anon. 527

—— Südfranzösische Thunfischerei. Ausland, 1861. 34. Jahrg., 1248. Anon. 528

—— Sui-siyoku siya-sin, histoire naturelle de la gent aquatique. Le livre des poissons. 2 vols. Tôkiyo, 1855. Anon. 529

Livre japonais se composant d'un volume de texte et d'un atlas de 74 planches finement coloriées, représentant environ 100 espèces.

—— Sur le *Salmo amethystinus* (namaycush) Bull. Soc. Acclimat. Paris, 1869, 2. sér. **6**, 494–495. Anon. 530

—— Svensk zoologi, författad af C. Quensel . . . med illuminerade figurer, tecknade af J. W. Palmstruch [and C. W. Venus] Första bandet. Med text författad af O. Swartz [and Heft 12 by J. W. Dalman] 2 vols. Stockholm, 1806–09 [–25] col. illust. 8°. Anon. 531

—— The swim-bladder of fishes. Amer. Naturalist, 1880, **14**, 898. Anon. 532

—— Das System unserer Flussfische. Aus der Heimath, 1862, 405–412. pl. Anon. 533

—— Taccuino delle esperienze del Galvani sulla torpedine fatte a Sinigaglia ed a Rimini l' anno 1795. Nuov. Cimento, 1869, 2. ser. **2**, 310–323. Anon. 534

—— Tentatives d'introduction de diverses espèces de poissons dans les eaux de l'Australie. Bull. Soc. Acclim. Paris, 1864, 2. sér. **1**, 305–307. Anon. 535

—— A Tertiary gar-pike [*Lepidosteus suessionensis*] in France. Amer. Naturalist, 1875, **19**, 278. Anon. 536

—— The thirty-third annual meeting of the American Fisheries Society held at Atlantic City, New Jersey, July 26–28. Science, 1904, n. s. **20**, 244. Anon. 537

—— Tobiasfisch [*Ammodytes tobianus*] Samml. Deutsch. Abh. Akad. Wiss., Berlin, 1776, **8**, 229–234. Anon. 538

—— Translation of a letter from the Hannover Magazine, no. 23, March 21, 1763, giving an account of a method to breed fish to advantage. London, 1778. 8°. Anon. 539

—— Travaux de la station de recherches relatives à la pêche maritime à Ostende. Fascicule ii. Ostende, 1905. Anon. 540

Reviewed by A. Briot in Rev. Gen. Sci., **16**, 833–834.

—— The trawling experiments. Rept. Northumberland Sea Fish. Comm., 1904, 7–20. Anon. 541

——Trawling investigations, 1906–09. I. Particulars of trawling stations of S. S. "Huxley." II. Detailed measurements of plaice caught at each haul of the commercial trawls, S. S. "Huxley." III. Summaries of hauls made by S. S. "Huxley," distinguishing the sizes of fish in 10 cm. groups. 4. Rept. North Sea Fish. Invest. Comm., 1912, 383–497. 8 charts. Anon. 542

—— Trout hybrids [Possibility of intercrossing eastern and Californian trouts] Forest & Stream, 1878, **10**, 255. Anon. 543

—— Trout in Australia and New Zealand. Zoologist, 1868, 2. ser. **3**, 1484–1485. Anon. 544

—— The trout [*Salmo kennerlyi*] of Washington territory. Forest & Stream, 1877, **7**, 413. Anon. 545

—— Tunny on the Somersetshire coast. Zoologist, 1875, 2. ser. **10**, 4725. Anon. 546

—— Ueber Aalwehre. Deutsch. Fischerei Zeitg., 1879, **2**, 49, 50. Anon. 547

—— Ueber Anlage und Betrieb kleiner und kleinster Brutanstalten für Winterlaichfische. Deutsch. Fischerei Zeitg. 67–69.—Erste Oesterr.-ungar. Fischerei Zeitg., 1880, 34–36. figs. Anon. 548

—— Ueber Anlage von Fisch- u. insebesondere von Karpfenteichen. Circul. Deutsch. Fischerei Ver., 1873, 263–266. Anon. 549

—— Ueber Aussetzung von Fischbrut. Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 207. Anon. 550

—— Ueber das Athmen der Fische. Naturforscher (Sklarek), 1872, 5. Jahrg., 128–139. Anon. 551

—— Ueber das Athmen einiger indischer Süsswasserfische. Naturf. (Sklarek), 1875, 8. Jahrg., 295–296. Anon. 552

—— Ueber das Gehör der Fische. Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 21–22. Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 11. Anon. 553

—— Ueber das richtige Verhältniss der Raubfische zu den anderen Fischgattungen in Süsswasser-Seen. Deutsch. Landw. Presse, 1877, 4. Jahrg., 334. Anon. 554

—— Ueber den norwegischen Fisch-Guano. Ausland, 1860, 33. Jahrg., 240. Anon. 555

—— Ueber die Anlage und Einrichtung einer Fischbrut-Anstalt. Mitth. über Fischereiwesen. München, 1878, 24–25. Anon. 556

—— Ueber die Fortpflanzung der Fische. Berichte Fischerei-Ver. Prov. Ost- und Westpreussen, 1879, no. 1, 14–16. *Ibid.*, 1880, no. 2, 26–27.—Zeitschr. Internat. Fischerei-Austellung. Berlin, 1880, no. 10. Anon. 557

—— Ueber die Fortpflanzungsart der Aale. Neue Notizen (Froriep), 1832, **34**, 305–306. Anon. 558

—— Ueber die Gefrässigkeit des *Lophius piscatorius*. Neue Notizen (Froriep), 1837, **3**, 69. Anon. 559

—— Ueber die Gehörknochen von *Cyprinus brama*. Isis (Oken), 1821, 273–277. fig. Anon. 560

—— Ueber die Immunität der Zitterrochen gegen ihren eigenen Schlag. Naturf. (Sklarek), 1875, 8. Jahrg., 204. Anon. 561

—— Ueber die Lebensweise des Aals. Neue Notizen (Froriep), 1841, **19**, 341–342. Anon. 562

—— Ueber die Lebensweise des *Cyprinus auratus*. Neue Notizen (Froriep), 1834, **39**, 84–85. Anon. 563

—— Ueber die Regenbogenforelle. Centralbl. Ges. Forstwesen, 1906, 32. Jahrg., 17–20. Anon. 564

—— Ueber die Respirations-Organe der Lamprete (*Petromyzon marinus*) Verh. Ges. Naturf. Freunde Berlin, 1829, **1**, 133–141. pl. Anon. 565

—— Ueber die Schwimmblase der Fische. Ausland, 1868, 41. Jahrg., 1077–1078. Anon. 566

—— Ueber die Wanderung der Aale. Oesterr.-ungar. Fischerei Zeitg., 1880, 151. Anon. 567

—— Ueber einen lebendig gebärenden Fisch aus Californien, *Ditrema argenteum*. Correspbl. Zool.-Mineral. Ver. Regensburg, 1869, 23. Jahrg., 95–96. Anon. 568

—— Ueber Konservierung von Fischen. Blätt. Aquar.-Terrar. Kunde, 1911, 22. Jahrg., 499–500; 529–530. Anon. 569

—— Ueber Missbildungen bei den Embryonen der Lachse. Naturf. (Sklarek), 1874, 7. Jahrg., 127. Anon. 570

—— Ueber Physiologie der fliegenden Fische. Zool. Garten, 1871, 12. Jahrg., 377–378. Anon. 571

—— Ueberführung von Lachsbrut aus einer Fischzuchtanstalt in kleinere Flüsse. Zool. Garten, 1872, **13**, 189. Anon. 572

—— Ujállat [Ein neues Thier; *Ceratodus forsteri*] Term. Tud. Köt., 1871, 147. Anon. 573

—— United States Fish Commission. Manual of fish culture, based on the methods of the United States Fish Commission, with chapters on oysters and frogs. Washington, 1897. 340 p. 90 pl. 8°. Anon. 574

Reprinted from Rept. U. S. Fish Comm. 1897 (1898), **23**.

—— United States Fish Commission. Popular extracts from the investigations of the commission for scientific examination of the German seas. Washington, 1882. 8°. Anon. 575

Reprinted from Rept. U. S. Fish Comm. 1879 (1882), **7**.

—— The universal angler; or, that art improved in all its parts, especially in fly-fishing, describing the several sorts of freshwater fish with their properest baits; also the Thames colours and seasons of all the most useful flies, together with directions for making each fly artificially, in the most exact manner, the whole interspersed with many curious and uncommon observations. Adorned with cuts of the several fish herein treated of. London, 1766. 12°. Anon. 576

This is a reprint of "The art of angling" by Richard and Charles Bowlker, 1758, with additions.

—— Unsere geschätztesten Tafelfische. Schweiz. Fischerei Zeitg., 1900, 8. Jahrg., 115–120; 131–134. *Ibid.*, 10. Jahrg., 225–227. Anon. 577

—— Unterhaltungen in der Naturgeschichte der Fische. Altona und Leipzig, 1791. pls. 8°. Anon. 578

—— Unterscheidung der Häringe in übersichtlicher Zusammenstellung. Leer, 1874. 8°. Anon. 579

—— Unterscheidungsmerkmale der Eier und der Alevins, resp. der Dottersackbrut, von Blaufelchen (*Coregonus wartmanni* Bloch) und Gangfisch (*Coregonus macrophthalmus* Nüsslin) Schweiz. Fischerei Zeitg., 1907, 15. Jahrg., 210–212. Anon. 580

—— Unusual modes of gestation in batrachians and fishes. Zoologist, 1860, **18**, 7173–7179. Anon. 581

—— Ursache der Athembewegungen bei den Fischen. Naturf. (Sklarek), 1873, 6. Jahrg., 196. Anon. 582

—— Vaagmaer, or dealfish [*Trachypterus arcticus*] in Ireland. Zoologist, 1875, 2. ser. **10**, 4343–4344. Anon. 583

—— Les variations de la pression osmotique chez les poissons. Rev. Scient., 1905, 5. sér. **4**, 217. Anon. 584

—— Varietà ittiologiche. Ann. Sci. Industrial (1865) 1866, 2. anno, 277–281. Anon. 585

—— Varmt blod hos fiske. Tiddskr. Popul. Fremstilling. Naturvidensk., 1880, **27**, 398–399. Anon. 586

—— Venomous fish [*Synanceia verrucosa*] Amer. Naturalist, 1872, **6**, 491–492. Anon. 587

—— Die Verbreitung der pelagischen Larven und Jungfische und ihre Lebensverhältnisse. Conseil Perm. Intern. Explor. de la Mer, Rapp., 1909, **10** A, 77–135. 32 figs. Anon. 588

—— Verpflanzung des Huchen [*Salmo hucho*] in norddeutsche Gewässer. Ann

Landwirthsch. Wochenbl., 1871, **11**, 149; 299. Anon. 589

—— Verslag der commissie uit het Collegie voor de zeevisscherijen betreffende de internationale Visscherij-tentoonstelling te Bergen in Noorwegen [s'Gravenhage, 1865] 16 p. Anon. 590

—— Verslag over de zelfde tentoonstelling, uitgebragt door de heeren. Berlin, 1866. 8°. Anon. 591

—— Verslag van de internationale tentoonstelling van visscherij-gereedschappen en voortbrengselen van de visscherij, gehoudente s'Gravenhage in Julij 1867, door het departement der Ned. Maatsch. ter bevordering van Nijverheid aldaar. Tijdschr. Maatsch. Nijverh., 1867, **8**, 357–375. — Nieuwe Rotterdamsche Courant, Julij, 1867. Anon. 592

—— Verslag van het Collegie voor de zeevisscherijen over de tentoonstelling van visscherij-gereedschappen enz., gehouden te Amsterdam in 1861. 's Gravenhage, 1862. 8°. Anon. 593

—— Verslag van het Collegie voor de zeevisscherijen over den staat der zeevisscherijen van 1857–71. 's Gravenhage, 1871. 8°. Anon. 594

—— Die Versuchsfischerei auf Hering und Sprott in der deutschen Bucht der Nordsee, Winter 1904–05. Mitth. Deutsch. Seefischerei Ver., 1905, **21**, 357–406. 2 maps. Anon. 595

—— Verzeichnis verschiedener Fische und Krebse des adriatischen Meerbusens. Triest, 1796. 189 p. 8°. Anon. 596

—— View of the salmon fishery of Scotland. Edinburgh, 1834. 8°. Anon. 597

—— Vischfokkerij; het aankweeken van visch in vijvers. Tijdsch. Nederl. Maatsch. Bevord. Nijverh., 1872, 228–231. Anon. 598

—— Vischschubben. Kennis en Kunst (Winkler), 1870, 49–50. pl. Anon. 599

—— Vischteelt te Velp; beschrijving van de Nederlandsche vischkweekerij, onder de firma J. A. Op de Macks en Co. te Velp. Algem. Visscherij-Cour., Nov. 3, 1872, no. 45. Nov. 23, no. 48. Anon. 600

—— Visschen, elektrische visschen. Album Natuur, 1857 (Wetensch. Bijblad), 45; 76. *Ibid.*, 1859, 71. *Ibid.*, 1860, 49. *Ibid.*, 1863, 29. Anon. 601

—— Visschen, geluidgevende visschen. Album Nat. Bijblad., 1857, 75. *Ibid.*, 1859, 25. *Ibid.*, 1862, 22; 43. Anon. 602

—— Visschen; muzikale visch op Borneo. Caecilia. Muzik. Tijdschr., 1870, no. 13. Anon. 603

—— De visschen van het uralo-kaspish-euxinisch gewest. Tijdschr. Aardrijksk. Genootsch., 1877, **2**, 322. Anon. 604

—— La vitalité du poisson. Naturaliste Canadien, 1897, **24**, 119–120. Anon. 605

—— Vitality of the Salmonidæ. Amer. Journ. Sci., 1866, 2. ser. **11**, 109. Anon. 606

—— A viviparous perch. Forest & Stream, 1876, **6**, 180. fig. Anon. 607

—— Vollständiges Fischbuch . . . allgemein verständliche Belehrungen über die Fischteiche und Fischhaltungen, selbige auf die wohlfeilste richtigste und nutzbarste Art anzulegen zu besetzen und abszuwarten nebst . . . Unterweisung zur Betreibung der Kunst und Lustfischerei, etc. Quedlinburg, 1824. xvi, 176 p. 12°. Anon. 608

—— Die Volumveränderungen der Fische. Naturf. (Sklarek), 1874, 7. Jahrg., 271–272. Anon. 609

—— Volumveränderungen des Barsches beim Schwimmen. Naturf. (Sklarek), 1874, 7. Jahrg., 167. Anon. 610

—— Vom Aale. Deutsch. Fischere Zeitg., 1880, 3. Jahrg., 113–114. — Oesterr.-ungar. Fischerei Zeitg., 1. Jahrg., 1880, 59–60. — Ber. Fischerei Ver. Prov. Ost. u. Westpreussen 1879–80 (1880), no. 3, 33–36. figs. Anon. 611

—— Vom Bodensee. Die Kretzerplage in der Konstanzer Bucht. Schweiz. Fischerei Zeitg., 1909, 17. Jahrg., 60–64. Anon. 612

—— Vom Gangfisch, *Coregonus exiguus* var. *nuesslini*. Schweiz. Fischerei Zeitg., 1911, **19**, 320–322. Anon. 613

—— Vom Karpfen (*Cyprinus carpio*) Schweiz. Fischerei Zeitg., 1907, 15. Jahrg., 203–205. Anon. 614

—— Vom Maifisch [*Clupea alosa*] Deutsch. Fischerei Zeitg., 1879, 2. Jahrg., 148. Anon. 615

—— Voracité de poissons pélagiques. La Nature, 1913, **41**, pt. 1, 335. 2 figs. Anon. 616

—— Vore Haifiskerier. Aftenbladet, Christiania, 1864, no. 20. Anon. 617

—— Wachstum der Forellen. Zool. Garten, 1862, 2. Jahrg., 88. Anon. 618

—— Walking fish. Zoologist, 1863, **21**, 8450–8451. Anon. 619

—— De Walvischvangst, met veele byzonderheden daartoe betrekkelyk. 4 vols. Amsterdam, 1784–86. illust. 8°. Anon. 620

Vol. iv is devoted to a description of the herring fishery.

—— Das Wandern der Neunaugen. Deutsch. Landw. Presse, 1877, 4. Jahrg., 18. Anon. 621

—— Wanderung der Aalbrut. Deutsche Landw. Presse, 1880, 7. Jahrg., 191–192. Anon. 622

—— Die Wanderungen des Aales. Natur (Müller), 1877, n. s. **3**, 249. Anon. 623

—— Wasserschatz für den Volkstisch (von H-1.) Die Gartenlaube, 1871, no. 35. Anon. 624

Description and illustration of the fish-hatching station at Hüningen, Switzerland.

—— Wegorze i ich hodowla. Przyroda i Przemysl, 1872, **1**, 396–398; 407–409; 419–421; 456–458. Anon. 625

—— Welches ist die Quelle der Elektricität bei elektrischen Fischen? Aus der Natur, 1869, **49** (n. s. **37**), 540–543. Anon. 626

—— Der Wels (Weller, Waller, Schaid) le silure. Schweiz. Fischerei Zeitg., 1896, **4**, 1–3. Anon. 627

—— Whether the eel be oviparous or a viviparous fish? Fishing Gazette, 1877, **2**, 5. Anon. 628

—— Der Whitebait ein Häring. Ausland, 1868, 41. Jahrg., 1128. Anon. 629

—— The whitefish [Coregonus] of North America. Fishing Gazette, 1877, 4. Anon. 630

—— The whitefish of the Great Lakes. Rept. U. S. Fish Comm. 1872–73 (1874), **2**, 79–84. Anon. 631

—— Wiederbelebung gefrorener Fische. Ausland, 1868, 41. Jahrg., 1008. Anon. 632

—— Wohlbewährte Fischgeheimnisse, oder deutlicher Unterricht von der grossen Nutzbarkeit der Fischerey, wie auch von der Fische Natur und Eigenschaft; nebst einer Anweisung, wie sie bequem zu fangen, und zu welcher Zeit man solche am besten halte. Nürnberg, 1758. xvi, 288 p. 8°. Anon. 633

The same. 2. Auflage. Nürnberg, 1789. 8°.

—— Wonderful fishes. History of wonderful fishes. Dublin, 1820. 181 p. 12°. Anon. 634

Said to be a very scarce popular work.

—— Wozu dient der Haken des männlichen Lachses? Deutsch. Fischerei Zeitg., 1880, 3. Jahrg., 373. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 161. Anon. 635

—— Yellow perch discussion. Trans. Amer. Fisheries Soc. 1909 (1910), 192–195. Anon. 636

—— Zalm; on the natural history of salmon and salmon fisheries. Edinburgh Phil. Journ., 1825, **12**, 335–360. Anon. 637

—— Der Zander (Le sandre) *Lucioperca lucioperca* (L.) (*Lucioperca sandra* Cuv. & Val.) Schweiz. Fischerei Zeitg., 1916, 24. Jahrg., 33–39. fig. Anon. 638

—— Zapiski o rybach z rzeki Skawy pod Makowem. Sprawozd. Kom. Fiziogr. Kraków, 1867, **1**, 136–138. Anon. 639

—— Zerstörung von Fischen. Deutsch. Landw. Presse, 1878, **5**, 419–420. Anon. 640

—— Zoology, British. List of the British animals in the Museum. 17 pts. London, 1848–55. 12°. Anon. 641

Pt. viii. Fish, by A. White. xxiii, 164 p.

—— Zoology; mammals, birds, reptiles, fishes. Rec. Caradoc & Severn Valley Field Club, no. 8, 17–19; no. 9, 23–30; no. 10, 17–28; no. 11, 36–47; no. 12, 33–41; no. 13, 26–37; no. 14, 28–38; no. 15, 23–31; no. 16, 22–29; no. 17, 26–32. Anon. 642

—— Zur Aalfrage. Deutsch. Fischerei Zeitg., 1878, 1. Jahrg., 130–131. Anon. 643

—— Zur Fortpflanzung des Aales. Ber. Fischerei Ver. Prov. Ost-Westpreussen, 1879–80, no. 2, 27. — Oesterr.-ungar. Fischerei Zeitg., 1880, 1. Jahrg., 30. Anon. 644

—— Zur Fortpflanzung des Aales. Naturf. (Sklarek), 1877, 10. Jahrg., 88. Anon. 645

—— Zur Kenntniss des *Scomber scombrus* L. Lotos, 1862, 12. Jahrg., 63. Anon. 646

—— Zur Naturgeschichte der Aale. Mitth. Mähr.-Schles. Ges. Ackerbau, Natur-Landesk; 1879, 327. Anon. 647

—— Zur Naturgeschichte des Aales. Schweiz. Fischerei Zeitg., 1896, **4**, 25–27. Anon. 648

—— Zur Naturgeschichte des Härings. Ausland, 1864, 37. Jahrg., 239. Anon. 649

—— Zwei Eingeweide-Fische. Aus der Heimat, 1861, 507–510. Anon. 650

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